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757c, 787c² and 787c²i GPS Chartplotter Operations Manual

531528-1_A



HUMMINBIRD

700 series™

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Thank You!

Thank you for choosing Humminbird®, America's #1 name in fishfinders. Humminbird® has built its reputation by designing and manufacturing top-quality, thoroughly reliable marine equipment. Your Humminbird® is designed for trouble-free use in even the harshest marine environment. In the unlikely event that your Humminbird® does require repairs, we offer an exclusive Service Policy - free of charge during the first year after purchase, and available at a reasonable rate after the one-year period. For complete details, see the separate warranty card included with your unit. We encourage you to read this operations manual carefully in order to get full benefit from all the features and applications of your Humminbird® product.

Contact our Customer Resource Center at either **1-800-633-1468** or visit our website at **www.humminbird.com**.

WARNING! *This device should not be used as a navigational aid to prevent collision, grounding, boat damage, or personal injury. When the boat is moving, water depth may change too quickly to allow time for you to react. Always operate the boat at very slow speeds if you suspect shallow water or submerged objects.*

WARNING! *Disassembly and repair of this electronic unit should only be performed by authorized service personnel. Any modification of the serial number or attempt to repair the original equipment or accessories by unauthorized individuals will void the warranty. Handling and/or opening this unit may result in exposure to lead, in the form of solder.*

WARNING! *This product contains lead, a chemical known to the state of California to cause cancer, birth defects and other reproductive harm.*

NOTE: *Some features discussed in this manual require a separate purchase, and some features are only available on international models. Every effort has been made to clearly identify those features. Please read the manual carefully in order to understand the full capabilities of your model.*

DualBeam PLUS™, CannonLink™, Fish ID+™, Fishing GPS®, Humminbird®, HumminbirdPC™, InterLink™, QuadraBeam PLUS™, RTS® Window, Selective Fish ID+™, WeatherSense®, WhiteLine®, WideSide®, X-Press™ Menu, and Structure ID® are trademarked by or registered trademarks of Humminbird®.

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NOTE: *Entries in this Table of Contents which list (International only) are only available on products sold outside of the U.S. by our authorized International Distributors. To obtain a list of authorized International Distributors, please visit our website at www.humminbird.com or contact our Customer Resource Center at 1-800-633-1468 to locate the distributor nearest you.*

NOTE: *Entries in this Table of Contents which list (with PC Connect Cable only) or (with Optional-Purchase QuadraBeam PLUS™/WideSide® Transducer) or (with Temp/Speed only) require the purchase of separate accessories. You can visit our website at* ***www.humminbird.com*** *to order these accessories online or contact our Customer Resource Center at* ***1-800-633-1468****.*

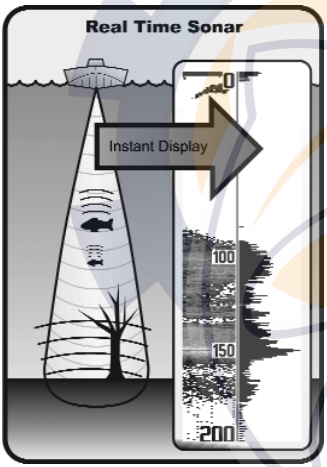
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How Sonar Works

Sonar technology is based on sound waves. The 700 Series™ Fishing System uses sonar to locate and define structure, bottom contour and composition, as well as depth directly below the transducer.

Your 700 Series™ Fishing System sends a sound wave signal and determines distance by measuring the time between the transmission of the sound wave and when the sound wave is reflected off of an object; it then uses the reflected signal to interpret location, size, and composition of an object.

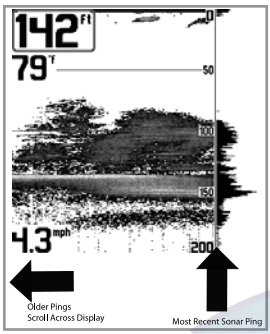
Sonar is very fast. A sound wave can travel from the surface to a depth of 240 ft (70 m) and back again in less than 1/4 of a second. It is unlikely that your boat can "outrun" this sonar signal.



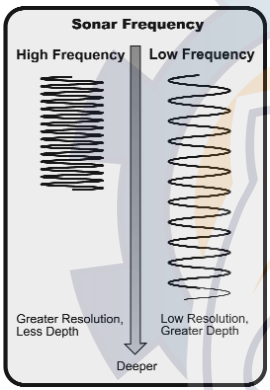
SONAR is an acronym for SOund and NAvigation Ranging. Sonar utilizes precision sound pulses or "pings" which are emitted into the water in a teardrop-shaped beam.

The sound pulses "echo" back from objects in the water such as the bottom, fish and other submerged objects. The returned echoes are displayed on the LCD screen. Each time a new echo is received, the old echoes are moved across the LCD, creating a scrolling effect.

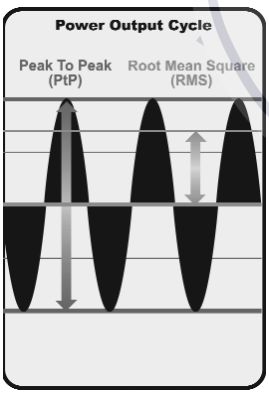
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When all the echoes are viewed side by side, an easy to interpret "graph" of the bottom, fish and structure appears.



The sound pulses are transmitted at various frequencies depending on the application. Very high frequencies (455 kHz) are used for greatest definition but the operating depth is limited. High frequencies (200 kHz) are commonly used on consumer sonar and provide a good balance between depth performance and resolution. Low frequencies (83 kHz) are typically used to achieve greater depth capability.

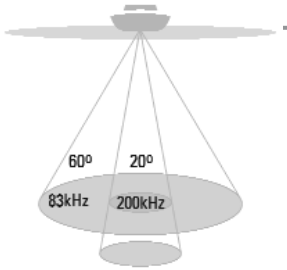


The power output is the amount of energy generated by the sonar transmitter. It is commonly measured using two methods:

- Root Mean Square (RMS) measures power output over the entire transmit cycle.
- Peak to Peak measures power output at the highest points.

The benefits of increased power output are the ability to detect smaller targets at greater distances, ability to overcome noise, better high speed performance and enhanced depth capability.

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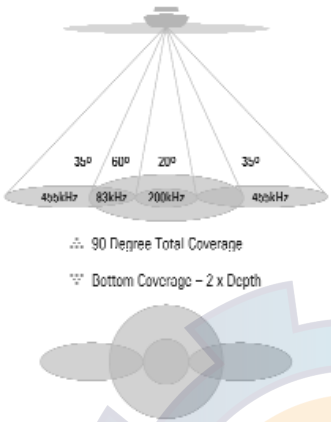
60 Degree Total Coverage

Bottom Coverage = 1 x Depth

DualBeam PLUS™ Sonar

Your 700 Series™ Fishing System uses a 200/83 kHz DualBeam PLUS™ sonar system with a wide (60°) area of coverage. DualBeam PLUS™ sonar has a narrowly focused 20° center beam, surrounded by a second beam of 60°, expanding your coverage to an area equal to your depth. In 20 feet of water, the wider beam covers an area 20 feet wide. The 20° center beam is focused on the bottom, to show you structure, weeds and cover. The 60° wide beam is hunting for fish in the wide coverage area. DualBeam PLUS™ sonar returns can be blended together, viewed separately or compared side-by-side. DualBeam PLUS™ is ideal for a wide range of conditions - from shallow to very deep water in both fresh and salt water. Depth capability is affected by such factors as boat speed, wave action, bottom hardness, water conditions and transducer installation.

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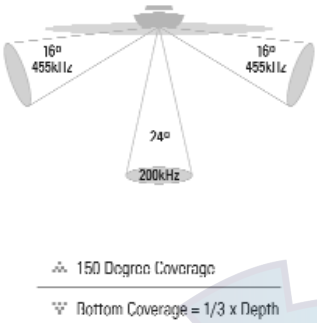


QuadraBeam PLUS™ Sonar

(with optional-purchase QuadraBeam PLUS™ transducer)

Your 700 Series™ Fishing System also supports QuadraBeam PLUS™ sonar with the purchase of an additional QuadraBeam PLUS™ transducer. QuadraBeam PLUS™ sonar provides an extremely wide 90° area of coverage. QuadraBeam PLUS™ starts with two fan-shaped 35° 455 kHz Side Structure locating sonar beams to spot fish, bait and structure to the left and right of the boat over an area of the bottom that's always equal to twice your depth. For a detailed view below the boat, QuadraBeam PLUS™ uses DualBeam PLUS™ technology, with precision 20° and wide 60° beams. QuadraBeam PLUS™ finds more fish faster, and can even tell you where to put your bait by showing if fish are to the left, right or directly beneath your boat.

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WideSide® Sonar

(with optional-purchase WideSide® transducer)

Your 700 Series™ Fishing System also supports WideSide® sonar with the purchase of an additional WideSide® transducer. The WideSide® transducer is a specialized "side-looking" transducer that is extremely useful for bank fishing or looking for bait fish in open water. The WideSide® transducer uses three different sonar elements that transmit signals to the left, right and straight down from your boat. The downward beam is 200 kHz with a 24° area of coverage. This beam maintains a continuous digital depth readout from the bottom directly beneath your boat. The side beams are 455 kHz with a 16° area of coverage. The side-looking elements can be used independently, or together to locate targets near the surface of the water on either side of your boat.

Universal Sonar 2

Your 700 Series™ Fishing System supports Universal Sonar 2, a state-of-the-art, integrated and protected transducer that is built into the lower unit of Minnkota trolling motors. With Universal Sonar 2, all wiring is concealed inside the indestructible composite shaft—out of sight and out of harm's way, with no clamps, ties, or exposed wires. Universal Sonar 2 features new temperature sensing and the performance of DualBeam PLUS™ technology (available with all Humminbird® DualBeam PLUS™ models). An expanded view and greater bottom detail gives you a totally new perspective of the water below, along with optimal sonar performance to help you find fish.

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How GPS and Cartography Work

Your 700 Series™ Fishing System also supports GPS and chartplotting, and uses GPS and sonar to determine your position, display it on a grid, and provide detailed underwater information. The Global Positioning System (GPS) is a satellite navigation system designed and maintained by the U.S. Department of Defense. GPS was originally intended for military use; however, civilians may also take advantage of its highly accurate position capabilities, typically within +/- 10 meters, depending on conditions. This means that 95% of the time, the GPS receiver will read a location within 10 meters of your actual position. Your GPS Receiver also uses information from WAAS (the Wide Area Augmentation System), EGNOS (the European Geostationary Navigation Overlay Service), and MSAS (the MTSAT Satellite Augmentation System) satellites if they are available in your area.



GPS uses a constellation of 24 satellites that continually send radio signals to the earth. Your present position is determined by receiving signals from up to 16 satellites and measuring the distance from the satellites.

All satellites broadcast a uniquely coded signal once per second at exactly the same time. The GPS receiver on your boat receives signals from satellites that are visible to it. Based on time differences between each received signal, the GPS receiver determines its distance to each satellite. With distances known, the GPS receiver mathematically triangulates its own position. With once per second updates, the GPS receiver then calculates its velocity and bearing.

The GPS Receiver included with your 700 Series™ Fishing System allows you to cosmbine easy-to-use FishingGPS® chartplotter and navigation capabilities with advanced fishfinding.

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The following GPS functionality is currently supported by the 700 Series™ Fishing System when it is connected to the included GPS receiver:

- View current position
- View current track (breadcrumb trail)
- View precision speed and heading from your GPS receiver
- Save tracks, waypoints and routes
- Travel a route and navigate from one waypoint to the next.

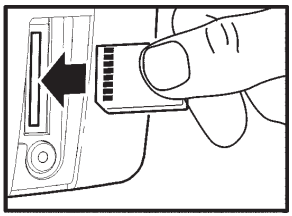
Your 700 Series™ supports Navionics® Gold, HotMaps™ and HotMaps™ Premium on MMC or SD card media.

NOTE: *Your 700 Series™ does not support Navionics® Classic Charts, only Navionics® Gold, HotMaps™, and HotMaps™ Premium.*

Your unit also comes with a built-in Uni-Map™ with a more detailed map of North America (Domestic models) or a more detailed map of Europe and Southeast Asia, including Australia and New Zealand (International models).

Your 700 Series™ uses the GPS Receiver to determine the position of the boat automatically, and uses the zoom level settings on a particular view to select the best chart to display. See ***Viewing Cartography*** for more information.

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Inserting an MMC/SD into the Card Slot

Multi-Media Card (MMC)/SD Slot

Your 700 Series™ Fishing System also has a multi-media card (MMC)/SD slot that is used to insert optional-purchase cards containing additional detailed maps. If you insert an MMC/SD that contains a more detailed chart for a particular location, your 700 Series™ Fishing System will retrieve that chart and display it automatically. Use the illustration to locate the position of the MMC/SD slot cover, remove the MMC/SD slot cover, then insert the MMC/SD into the slot. The label on the MMC/SD should face toward the right side of the unit. Press down on the card until it clicks into place, then replace the slot cover, making certain that the gasket is present and positioned correctly before re-installing the cover, then replace and tighten snugly - do NOT overtighten, as this will not improve water resistance, and may damage the cover.

Software Updates

Use the MMC/SD slot to update the software version of your control head. To update the software in your control head, plug in the appropriate MMC/SD card that contains a software update file; the unit will recognize it, will tell you what software version your control head is currently running, and will ask you if you want to update the software in the unit to match that on the MMC/SD card. You can obtain software updates from the **www.humminbird.com** website.

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What's On the Display

The 700 Series™ Fishing System can display a variety of useful information about the a

Depth - water depth; can be set to alarm when the water becomes too shallow.

Cursor - available in Freeze Frame and can be positioned in the Sonar View to provide depth of a sonar return and bottom depth below the cursor.

Temperature - water surface temperature.

Timer - Elapsed time with Temp/Speed Accessory or GPS Receiver.

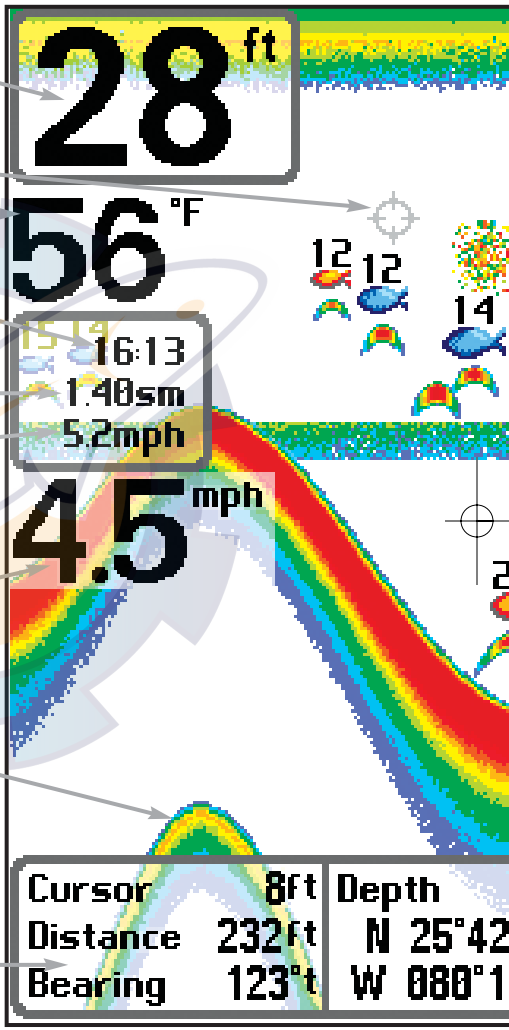
Distance - Distance traveled with Temp/Speed Accessory or GPS Receiver.

Average Speed - Average speed reading with Temp/Speed Accessory or GPS Receiver.

Speed - if a Temp/Speed accessory or GPS Receiver is attached, the Fishing System can display the speed of the boat, and can keep a Triplog of nautical or statute miles traveled.

Second Sonar Return - when the sonar signal bounces between the bottom and the surface of the water and back again. Use the appearance of the second return to determine bottom hardness. Hard bottoms will show a strong second return, while soft bottoms will show a very weak one or none at all.

Cursor Dialog Box - indicates cursor depth on the display and the depth of the bottom directly below the cursor. The Latitude and Longitude of the cursor position, the distance to travel to the cursor position and the bearing to the cursor position is shown with a GPS receiver. A waypoint can be marked at the cursor position for later retrieval and use with a GPS receiver.

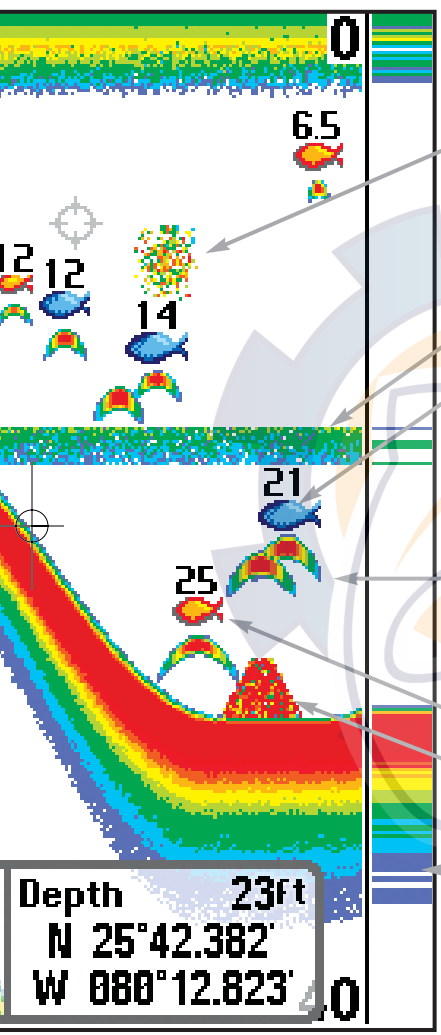


NOTE: *Entries in this view that list (with Temp/Speed or GPS Receiver) are available if either the information from the GPS receiver will be displayed on the view.*

device

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out the area under and adjacent to your boat, including the following items:



High Sonar Intensity Return

Bait Ball

Thermoclines - layers of water with different temperatures that appear at different depths and different times of the year. A thermocline typically appears as a continuous band of many colors moving across the display at the same depth.

83 kHz Blue Fish Symbol

Fish - the Fishing System displays fish as arches and/or fish icons, and can be set to alarm when a fish of a certain size is detected. When a target is detected, a Fish ID+™ symbol appears on the display with the depth displayed above it. The size of the symbol indicates the intensity of the sonar return. The unit will clearly show schools of Bait Fish as "clouds" of different shapes and sizes, depending on the number of fish and boat speed.

200 kHz Orange Fish Symbol

Structure - where fish may be hiding.

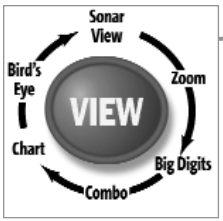
RTS® (Real Time Sonar) Window

Low Sonar Intensity Return



her device is connected to the 700 Series™ Fishing System. If both devices are connected, then only

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Views

The views available on your Fishing System are:

Sonar views:

- Sonar View
- Zoom View
- 200/83 kHz Split Sonar View
- Big Digits View
- Circular Flasher View
- Snapshot and Recording View
- Side Beam View
- WideSide® View.

Navigation views:

- Bird's Eye View
- Chart View
- Combo View.

NOTE: *When you change any menu settings that affect the sonar, the view will update immediately (i.e. you don't have to exit the menu to apply the change to the screen).*

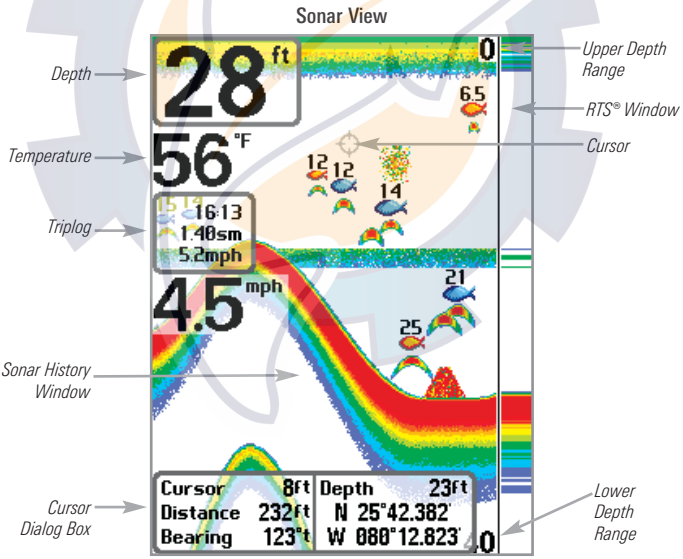
NOTE: *Side Beam View and WideSide® View require the purchase of the QuadraBeam PLUS™ transducer for the Side Beam View and the WideSide® transducer for the WideSide® View. You can visit our website at* ***www.humminbird.com*** *to order these accessories online or contact our Customer Resource Center at* ***1-800-633-1468****.*

Sonar View is the default view. When the VIEW key is pressed, the display cycles through the available views. When the EXIT key is pressed, the display cycles through the available views in reverse order. Any view can be hidden or displayed as part of the view rotation using the Views Menu tab.

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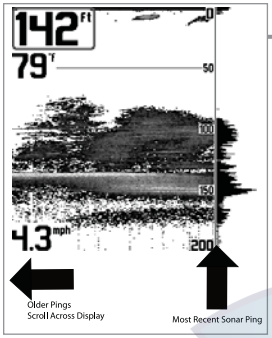
Sonar View

Sonar View presents a historical log of sonar returns. Depth is always displayed. Readouts for temperature and speed are automatically displayed if the appropriate accessory is connected. The most recent sonar returns are charted on the right side of the window; as new information is received, the older information is moved across the display to the left. A Digital Depth Readout is displayed in the upper left corner. A scale with Upper and Lower Depth Range readouts appears along the right edge of the Sonar View. The scale indicates the distance from the surface of the water to a depth range sufficient to show the bottom. Depth Range is automatically selected to keep the bottom visible on the display, although you can adjust it manually as well (see ***Sonar X-Press™ Menu***). Five additional Digital Readouts display information from optional-purchase accessories. These information boxes can be customized to show only the information desired (see *Setup Menu Tab, Select Readouts*).



NOTE: *If the Depth number is flashing, it means that the unit is having trouble locating the bottom. This usually happens if the water is too deep, the transducer is out of the water, the boat is moving too fast, or for any other reason that the unit can't accurately receive continuous data.*

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Understanding Sonar History

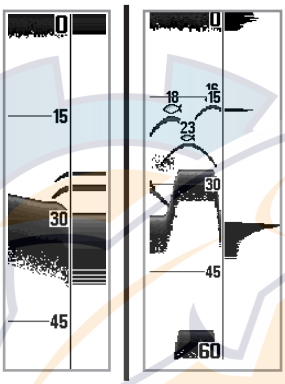
It is important to understand the significance of the display. The display does NOT show a literal 3-dimensional representation of what is under the water. Each vertical band of data received by the control head and plotted on the display represents something that was detected by a sonar return at a particular time. As both the boat and the targets (fish) may be moving, the returns are only showing a particular segment of time when objects were detected, not exactly where those objects are in relation to other objects shown on the display.

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Real Time Sonar (RTS®) Window

A **Real Time Sonar (RTS®) Window** appears on the right side of the display in the Sonar View only. The RTS® Window always updates at the fastest rate possible for depth conditions and shows only the returns from the bottom, structure and fish that are within the transducer beam. The RTS® Window plots the depth and intensity of a sonar return. (See ***Sonar Menu: RTS® Window***).

The **Narrow RTS® Window** indicates the sonar intensity through the use of colors. Red indicates a strong return and blue indicates a weak return. The depth of the sonar return is indicated by the vertical placement of the return on the display depth scale.



The **Wide RTS® Window** indicates the sonar intensity through the use of a bar graph. The length of the plotted return provides an indication of whether the return is weak or strong. The depth of the sonar return is indicated by the vertical placement of the return on the display depth scale. The Wide RTS® Window does not make use of grayscale.

Freeze Frame and Cursor

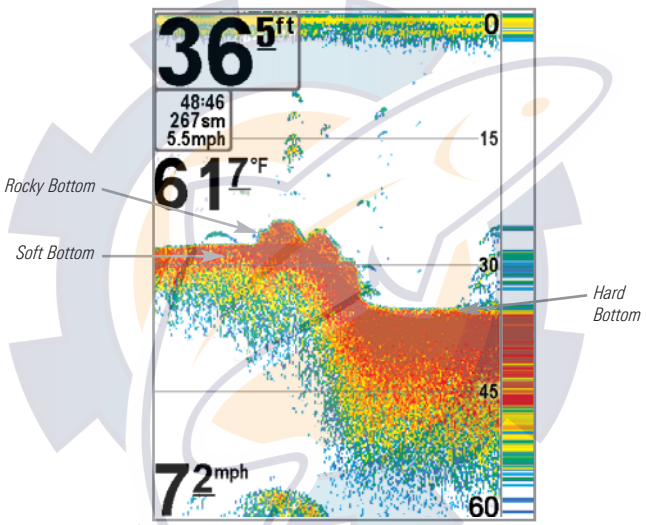
Freeze Frame - Pressing any arrow on the 4-WAY Cursor Control key will freeze the screen and a cursor will be displayed on the screen. The cursor can be positioned on the display using the 4-WAY Cursor Control key to determine the depth of any sonar return. The RTS® Window continues to update in Freeze Frame. In addition, see the effects of menu setting changes with Instant Image Update. Pressing EXIT will exit Freeze Frame and the display will start to scroll. Freeze Frame is available in the Sonar, Sonar Zoom, and 200/83 kHz Split Sonar Views.

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Bottom Presentation

As the boat moves, the unit charts the changes in depth on the display to create a profile of the **Bottom Contour**. The type of bottom can be determined from the return charted on the display. A **Hard Bottom** such as compacted sediment or flat rock appears as a thinner line across the display. A **Soft Bottom** such as mud or sand appears as a thicker line across the display. **Rocky Bottoms** have a broken, random appearance.

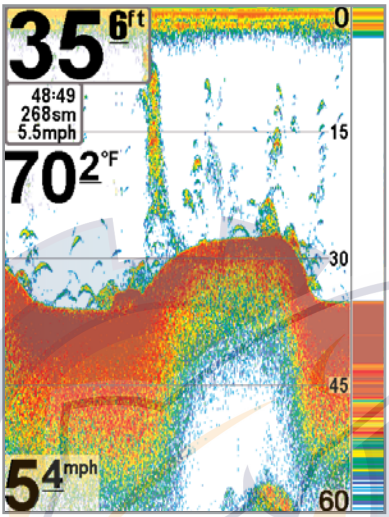
Bottom Contour Profile with RTS® Window.



The sonar returns from the bottom, structure and fish can be represented as either **WhiteLine®** or **Structure ID®**. See *Sonar Menu Tab: Bottom View* for details on how to set the bottom view.

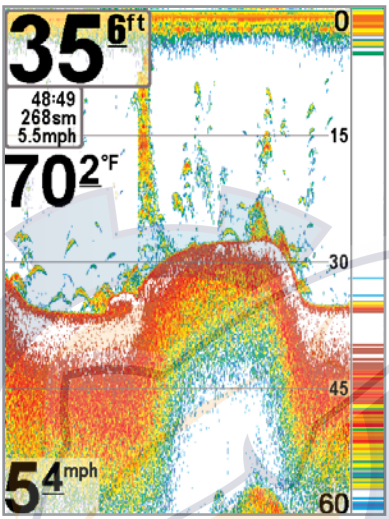
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Structure ID® represents weak returns in blue and strong returns in red.



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WhiteLine® highlights the strongest sonar returns in white, resulting in a distinctive outline. This has the benefit of clearly defining the bottom on the display.



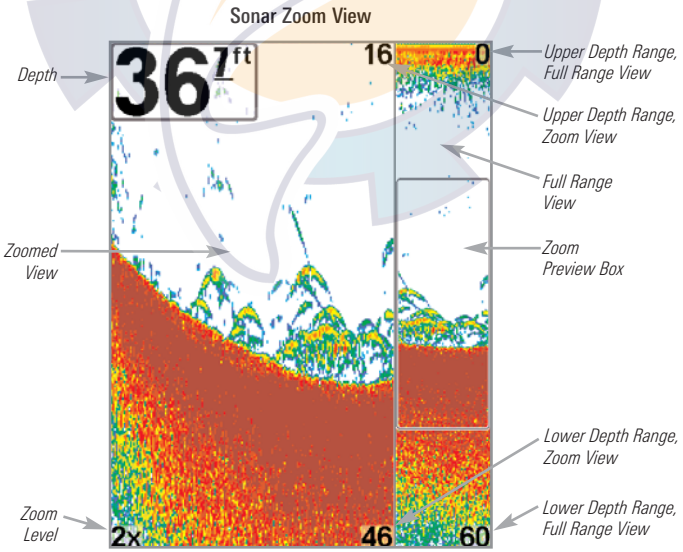
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Sonar Zoom View

Sonar Zoom View increases the displayed resolution to separate sonar returns that are very close together, such as those caused by fish suspended close to the bottom or within structure. In Zoom View, the display is split to show a narrow slice of the full range view on the right and the zoomed view on the left. The full range view on the right also contains the Zoom Preview Box that shows what part of the full range view is shown in zoom view on the left; the Zoom Preview Box tracks the bottom in the full range view.

As the depth changes, the zoomed view updates automatically to display a magnified image of the bottom. The Zoom Preview Box shows where the zoomed view is in relation to the full range view. The Zoom Level, or magnification, is displayed in the lower left corner and can be changed to suit conditions (see ***Sonar X-Press™ Menu: Zoom Level***). Upper and Lower Zoom Depth Range numbers indicate the depth of the water which is being viewed.

Digital depth is displayed in the upper left hand corner. The digital readouts in the Sonar Zoom View cannot be customized; therefore, information such as water temperature and voltage are unavailable in the Sonar Zoom View.



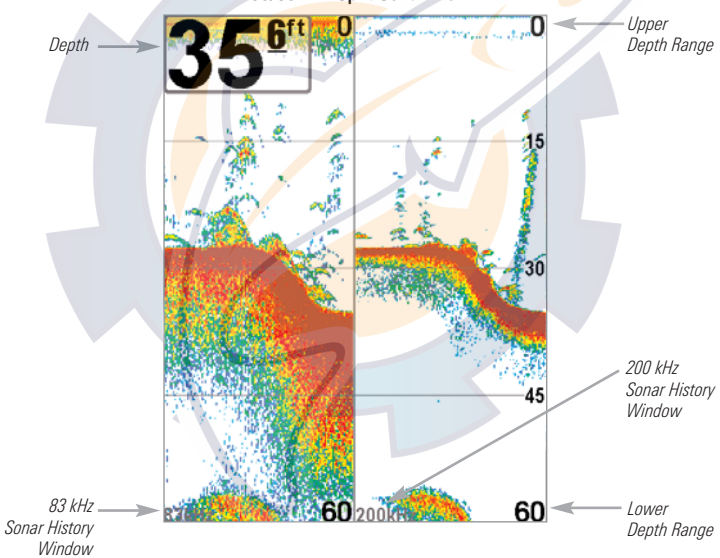
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200/83 kHz Split Sonar View

Split Sonar View displays sonar returns from the 83 kHz wide beam on the left side of the screen and displays sonar returns from the 200 kHz narrow beam on the right side of the screen. Depth is always displayed in the upper left hand corner. You can use the Split Sonar View to make side by side comparisons between the sonar returns from the 83 kHz wide beam and the 200 kHz narrow beam.

The digital readouts in the Split Sonar View cannot be customized; therefore, information such as water temperature and voltage are unavailable in the Split Sonar View.

200/83 kHz Split Sonar View

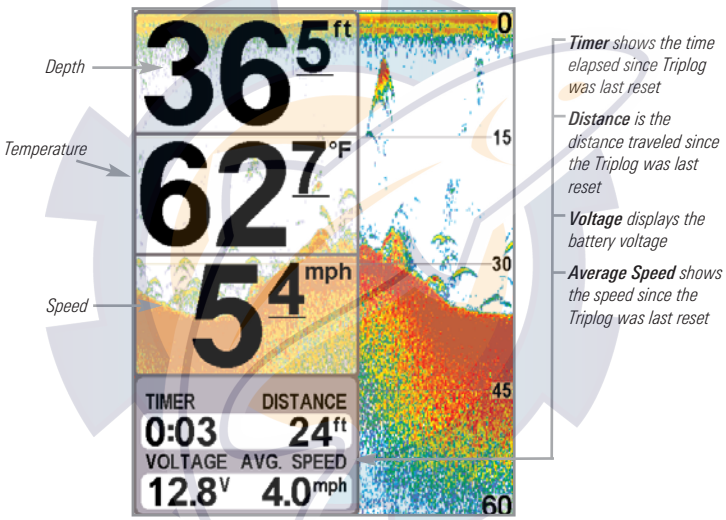


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Big Digits View

Big Digits View provides digital data in a large, easy-to-see format. Depth is always displayed. Readouts for temperature, speed and Triplog information are displayed automatically if the appropriate accessory is connected to the system. The Triplog shows distance traveled, average speed, and time elapsed since the Triplog was last reset. The digital readouts in the Big Digits View cannot be customized.

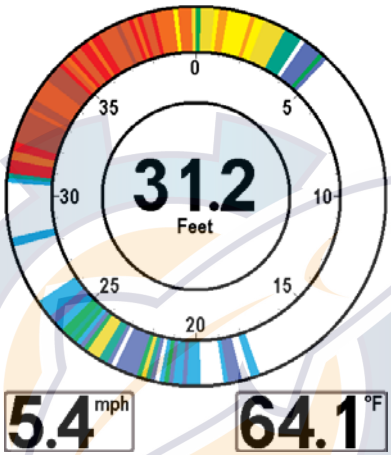
Big Digits View



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Circular Flasher View

Circular Flasher View displays Real Time Sonar (RTS®) data in the traditional flasher format. Depth and temperature are always displayed. The digital readouts in the Circular Flasher View cannot be customized.



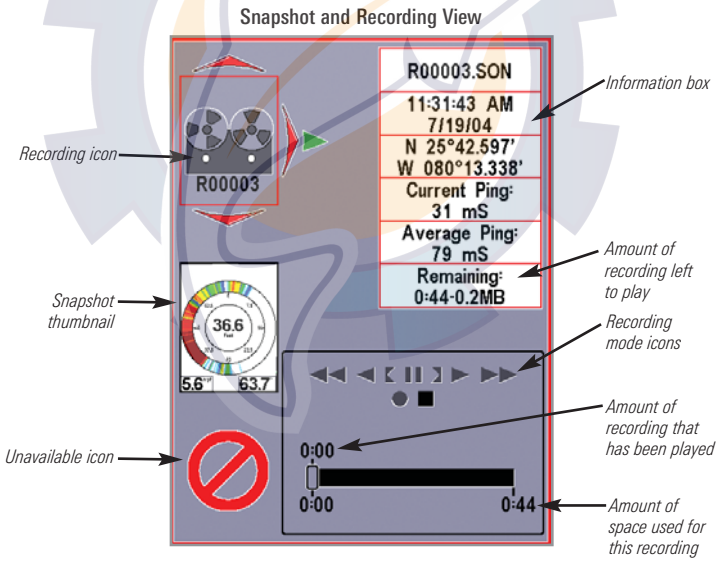
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Snapshot and Recording View

Snapshot and Recording View displays and allows you to view both screen snapshot thumbnails and recording icons captured to an optional-purchase MMC/SD card installed in your unit. In addition, when you are in the Snapshot and Recording View, Start Recording, Stop Recording, Delete Image, Delete All Images, Delete Recording, Delete All Recordings, Pings Per Second, Playback Speed and Stop Playback are added to the X-Press™ menu.

The Snapshot and Recording View displays up to three screen snapshot thumbnails or recording icons on the screen at a time; you may have to scroll using the 4-WAY Cursor keys to see the whole list of thumbnails and/or icons in this view. The selected thumbnail or icon will be highlighted with arrows.

NOTE: *The speed of the screen capture or of the recording depends on the type of card you use; in general, SD cards capture the screen faster than MMC cards do.*



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NOTE: *For snapshots and recordings, the indicator bar has several states: during recording, the amount of space remaining on the MMC/SD card is indicated on the status bar. During playback, the amount of time/memory remaining to play is indicated on the status bar. When a snapshot thumbnail is highlighted, the amount of room remaining on the MMC/SD card is indicated.*

Screen Snapshot: When Screen Snapshot is enabled (from the Accessories menu tab), pressing the MARK key creates a saved screen capture (when you have an optional-purchase MMC/SD card installed). Once you have created a screen capture, a screen capture thumbnail is added to the Snapshot and Recording View, and is available to view at a later date. See the full-sized image by highlighting a thumbnail (using the Up or Down 4-Way Cursor keys), then using the Right 4-Way Cursor key to view the full image. A border around the full-size screen snapshot indicates that it is just a screen snapshot, not a "live" view. You can delete the selected image, or all images, by selecting a thumbnail and using Delete Image, or using Delete All Images from the Snapshot and Recording X-Press™ menu.

Working with screen snapshots is a four-step process:

1. Enabling Screen Snapshot from the Accessories Menu.
2. Making a Screen Snapshot using the MARK key.
3. Viewing a Screen Snapshot using the Snapshot and Recording View.
4. Deleting a Screen Snapshot using the Snapshot and Recording X-Press™ menu.

For more information, see *Accessories Menu Tab: Using Screen Snapshot and Snapshot and Recording X-Press™ Menu*.

When you start a screen snapshot, you will see a message that a waypoint has been created at the point where your cursor is on the screen, and the screen will freeze while the snapshot is being saved to the MMC/SD card. A status dialog box will appear that shows the progress of the save as a percentage, and that displays the numbered file name assigned to the .BMP file that is being created. Snapshot filenames begin with the letter "S". For more information, see *Accessories Menu Tab: Using Screen Snapshot procedure and Snapshot and Recording X-Press™ Menu*.

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Recording and Playback: From the Snapshot and Recording View, you can use the X-Press™ menu to start and stop recording, and to change the pings per second (which alters the detail level of the recording). Once you are recording already, playing back a recording and screen snapshot viewing are not allowed, and the only Sonar Recording menu choices available in the X-Press™ menu are Stop Recording and Pings Per Second. Use the 4-Way Cursor keys from the Snapshot and Recording View to start playback of a specific recording icon. You can then cycle through all the views using the VIEW key to see what those views looked like during the recorded time period. You can also use the X-Press™ menu to change playback speed, stop playback, and delete recording icons.

Working with sonar recordings is a six-step process:

1. Displaying the Snapshot and Recording View.
2. Starting a sonar recording using the Snapshot and Recording X-Press™ menu.
3. Changing the maximum ping rate for the recording using the Snapshot and Recording X-Press™ menu (optional).
4. Stopping a recording using the Snapshot and Recording X-Press™ menu.
5. Playing back a recording, using the Snapshot and Recording View and the 4-Way Cursor keys, and changing the playback speed using the Snapshot and Recording X-Press™ menu.
6. Deleting a recording using the Snapshot and Recording X-Press™ menu.

For more information, see ***Snapshot and Recording X-Press™ Menu***.

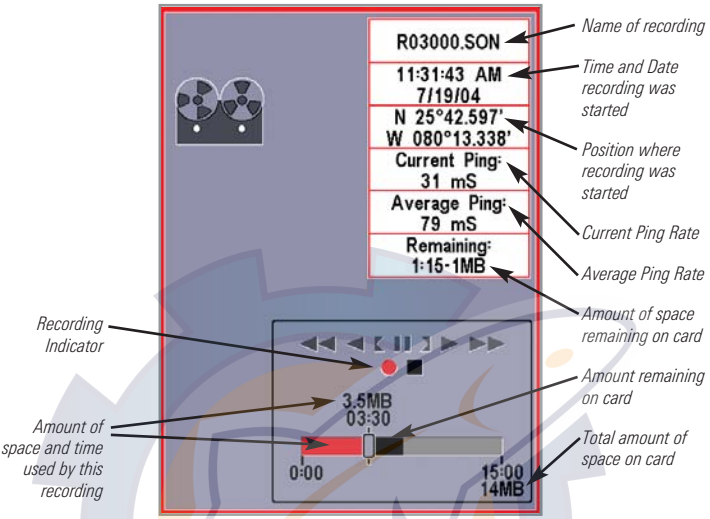
When you start a sonar recording, you will see a message that a waypoint has been created at your current location. During recording, playing back a recording and screen snapshot viewing are not allowed. An information box displays a variety of information including the numbered file name assigned to the .SON file that is being created. The slider bar at the bottom of the screen shows the progress of the recording as well as how much space is remaining on the MMC/SD card.

NOTE: The waypoints that are created by a recording have the same name as the file and use a custom waypoint icon. Recording filenames begin with the letter "R".

For more information, see ***Snapshot and Recording X-Press™ Menu***.

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Recording Slider Bar



Highlighting a recording: You can scroll through the whole list of recording icons available in the Snapshot and Recording View using the 4-WAY Cursor keys. The highlighted icon will be surrounded by arrows, and a green play triangle will appear to its right.

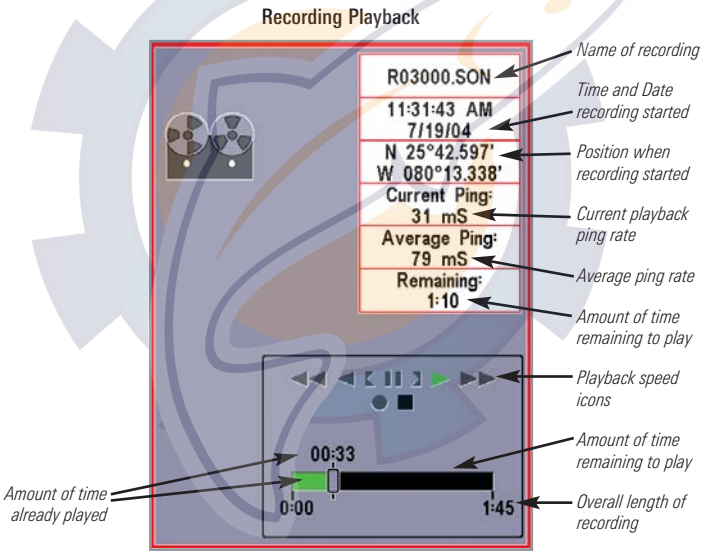
Playing back a recording: Highlight a recording icon (using the Up or Down 4-Way Cursor keys), then use the Right 4-Way Cursor key to start playback. During playback, all active navigation is cancelled, all other thumbnails and icons will disappear, and a "Playback" message box similar to the Simulation message will be displayed periodically. When playback begins, the view is automatically switched to the primary Sonar View for your model, and no live sonar data will be displayed; only recorded sonar and GPS data will be shown, and the Snapshot and Recording View will display the playback status. You can change the speed, skip to the beginning or end of playback, and even reverse playback, using the Playback Speed X-Press™ menu item, and stop the playback using the Stop Playback X-Press™ menu item; these items are added to the X-Press™ menus in all views during playback. In the Snapshot and

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Recording View only, playback speed can also be changed using the Left and Right 4-Way Cursor keys. Playback is paused when the sonar cursor is active and resumes playing when the cursor is removed. Playback is automatically paused when the end of the recording is reached.

NOTE: *Sonar chart speed is increased during Fast Forward and reversed during Rewind. This may reduce the quality of the sonar image, since at higher speeds, not every sonar return can be processed and displayed.*

NOTE: *Navigation is not affected by the Sonar Recording feature, but any active navigation is cancelled when playback begins or ends.*



You can delete the highlighted recording, or all recordings, using Delete Recording or Delete All Recordings from the Snapshot and Recording X-Press™ menu.

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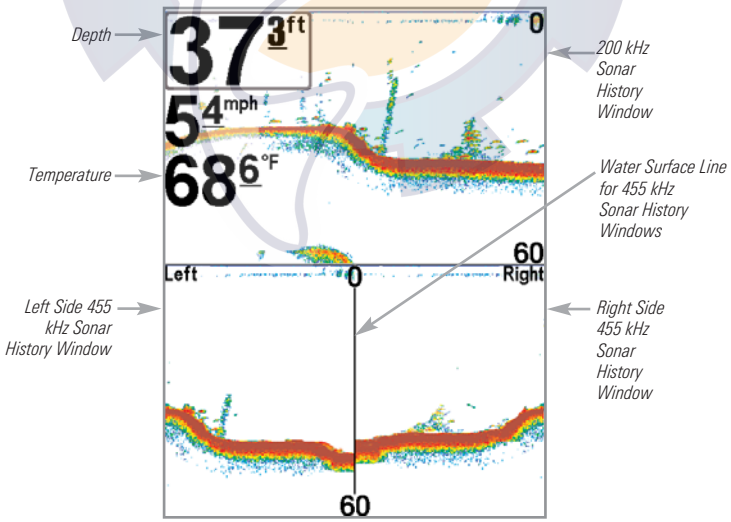
Side Beam View

(with optional-purchase QuadraBeam PLUS™ transducer)

Side Beam View is only available if you have connected an optional-purchase QuadraBeam™ transducer accessory and when Transducer Select is set to QuadraBeam (see ***Sonar Menu Tab: Transducer Select***). The QuadraBeam PLUS™ transducer requires a separate purchase. This view shows sonar information from both the left and right 455 kHz beams and the 200 kHz down-looking beam in one view. You can customize the way the sonar data is displayed in the Side Beam View to suit your personal preferences. Depending on the layout selected from the Quad Layout Sonar X-Press™ menu (only available on the Sonar X-Press™ menu when in Side Beam View), the display will represent the same sonar data in one of the following three layouts: Default, Classic, and Slanted.

Default layout: The top portion of the display presents a historical log of sonar returns from the 200 kHz down-looking sonar beam. New information in the down beam panel scrolls from right to left. The bottom portion of the display presents a historical log of sonar returns from the 455 kHz right- and left-looking sonar beams. New information in the side beam panels scrolls from the center out.

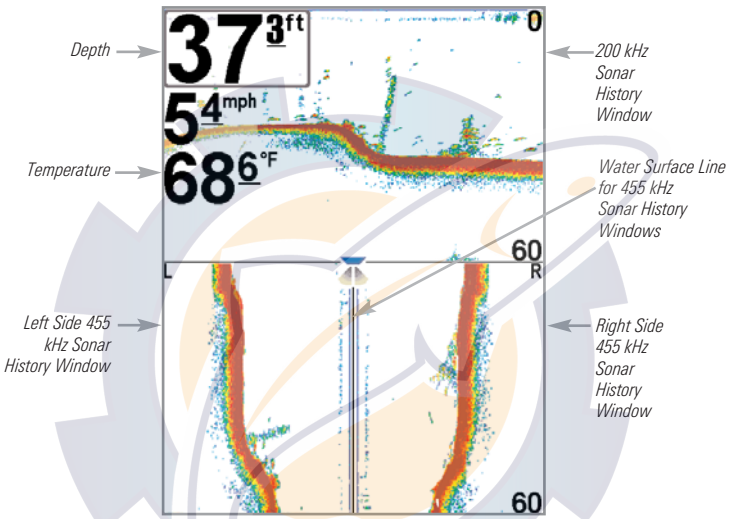
Side Beam View, Default Layout



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Classic layout: The top portion of the display presents a historical log of sonar returns from the 200 kHz down-looking sonar beam. New information in the down beam panel scrolls from right to left. The bottom portion of the display presents a historical log of sonar returns from the 455 kHz right- and left-looking sonar beams. New information appears at the top, and scrolls down the display.

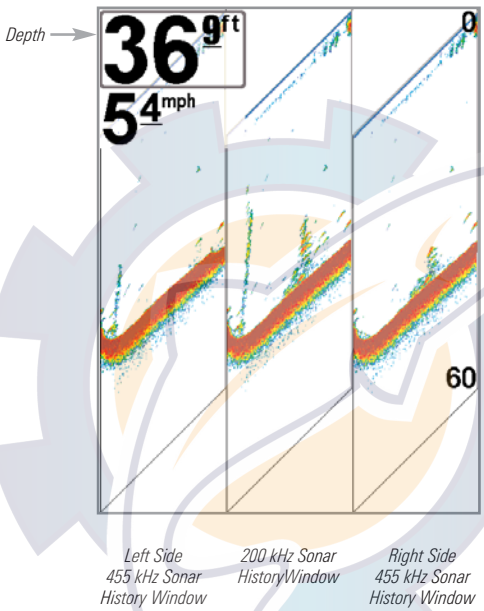
Side Beam View, Classic Layout



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Slanted layout: This layout presents the two 455 kHz side sonar beams and the 200 kHz down-looking sonar beam as three panels of historical data. This layout is presented as three slanted panels. New information appears on the right, and scrolls to the left.

Side Beam View, Slanted Layout



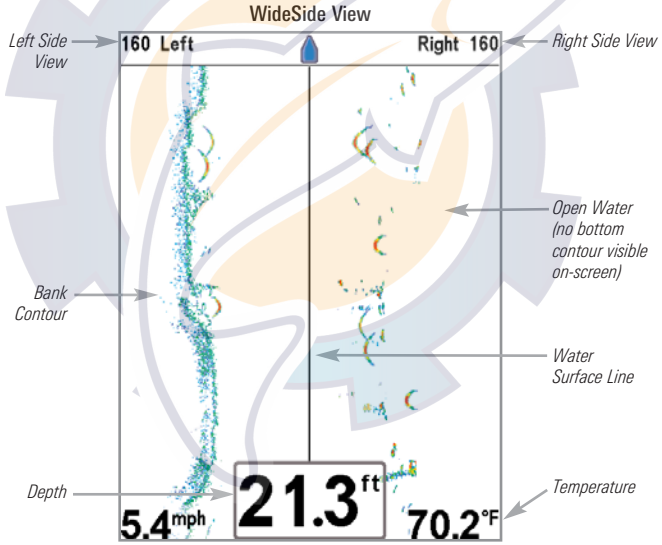
In all of these layouts, the sonar information from the side-looking beams reveals bottom contour, structure and fish similar to the down-looking beam, but the area covered is to the left and right of the area shown in the down-looking portion, so you actually see more of the bottom. The distance covered by the right and left beams is based on the depth setting for the down-looking beam, up to a maximum of 160 feet.

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WideSide® View

(with optional-purchase WideSide® transducer)

WideSide® View is only available if you have connected a WideSide® transducer accessory and when Transducer Select is set to WideSide® (see ***Sonar Menu Tab: Transducer Select***). The WideSide® transducer requires a separate purchase. The WideSide® View displays information from the 455 kHz WideSide® transducer. Three views are available: Left, Right and Both. The default view is Both. Information from both the left and right beams are displayed simultaneously. The depth of the water beneath the boat is always displayed. A bottom contour may be present while bank fishing or fishing river channels. When fishing in the open water, a bottom contour will not be present, and only sonar returns from either debris or fish will be displayed.



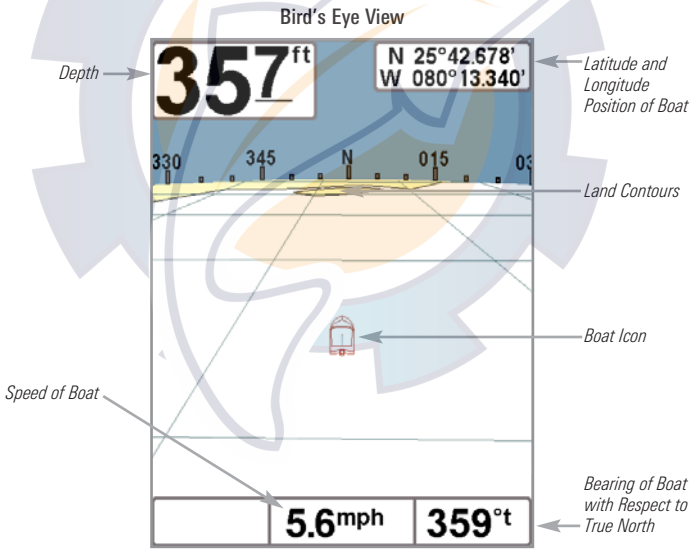
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Bird's Eye View

Bird's Eye View - This view shows a 3-D, perspective view of the track and the chart's land contour from a point above and behind the boat (the eye point). As the boat turns, the eye point moves to follow the boat.

When you press the 4-WAY Cursor key in the **Bird's Eye View**, the position of the eye point will shift. This allows you to move and turn the eye point so that you can look off to the sides, or even behind the boat. Pressing the RIGHT or LEFT arrow keys on the 4-WAY Cursor key turns the eye point right or left, while pressing the UP arrow key moves the eye point forward, and pressing the DOWN arrow key moves the eye point backward.

Pressing the EXIT key moves the eye point back to its original position behind and above the boat.

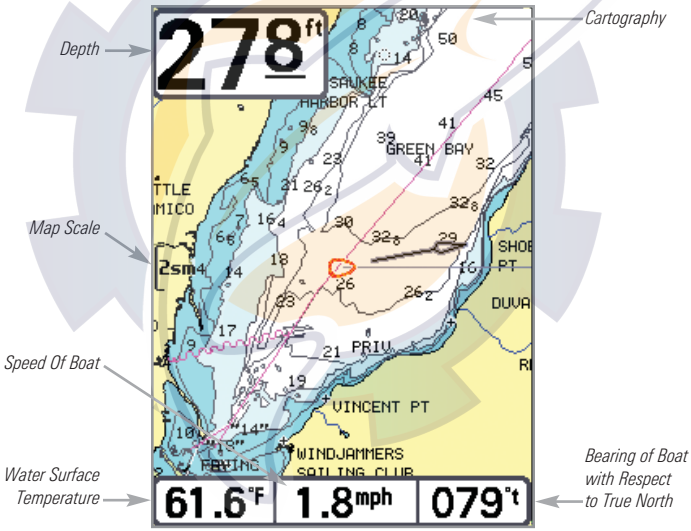


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Chart View

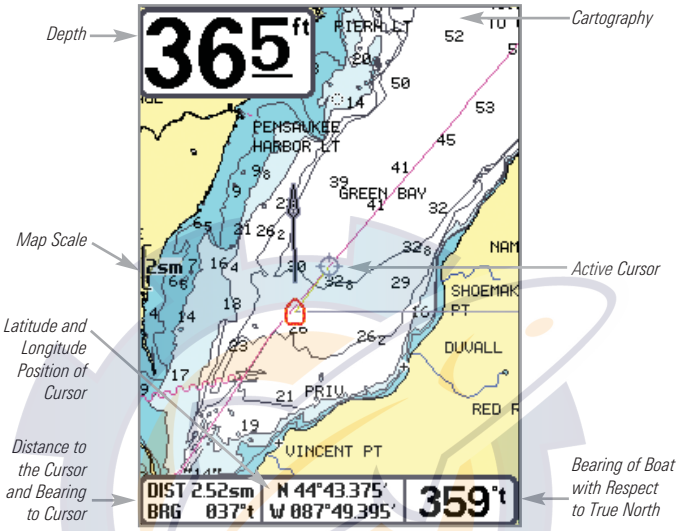
Chart View - This view shows cartography from the built-in UniMap™ or an optional MMC map for the area surrounding your current position. The current track (also known as the position history or breadcrumb trail) showing where the boat has been, along with saved tracks, waypoints, and the current route (when navigating), are overlaid on the chart. You can use the 4-WAY Cursor Control key to shift/pan the chart to another area. You can use the ZOOM (+/-) keys to zoom in and out. You can use the INFO key to get information on the chart objects near the cursor.

Chart View without Active Cursor, shown with Optional-Purchase Navionics® Cartography



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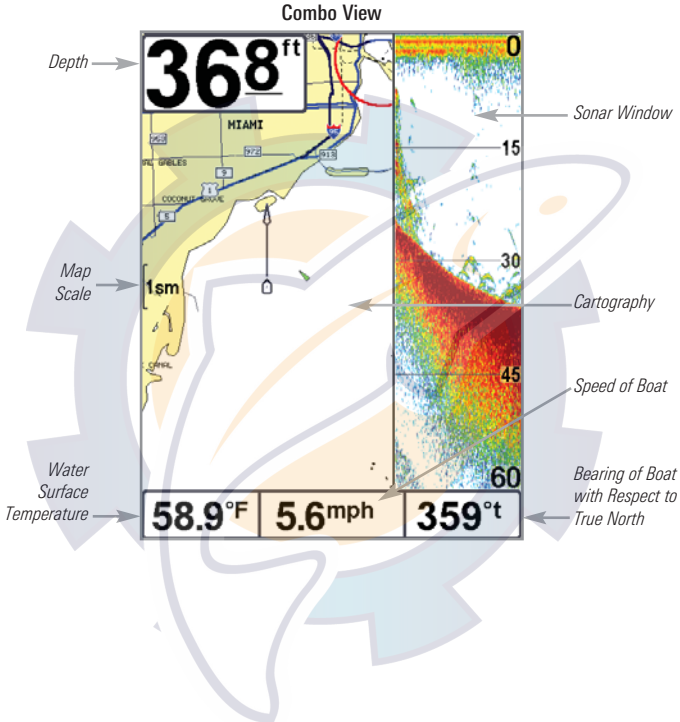
Chart View with Active Cursor, shown with Optional-Purchase Navionics® Cartography



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Combo View

Combo View - This view is displayed as a split screen, with Chart View on the left and Sonar View on the right side of the screen. The width of the sonar window can be changed.



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View Orientation

Both **Chart** and **Combo** views allow you to choose the orientation of the view. When **North-Up orientation** is selected, True North is shown at the top of the display. In other words, objects located to the north of the boat are drawn above the boat. When **Course-Up orientation** is selected, the direction of motion of the boat is shown at the top of the display. In other words, objects ahead of the boat are drawn above the boat. In both orientations, the view pans automatically, so that the boat is always centered on the display. When the boat is stationary, it is drawn as a circle. When the boat is in motion, it takes on a boat shape, pointed in the direction of motion (always Up in the Course-Up orientation).

Viewing Cartography

In the Chart or Combo Views there are several cartography-related functions that you can access using various keys.

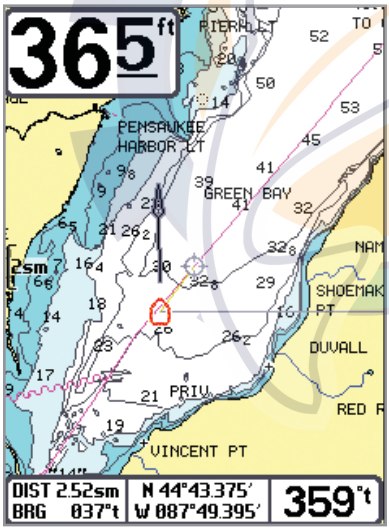


Chart View with Cursor Present, shown with Optional-Purchase Navionics® Cartography

Panning: Use the 4-WAY Cursor keys to move the chart around on the display in the direction of the key being pressed. When you do this, a bull's eye cursor is drawn at the center of the screen and is linked to the boat by a gray line, even if the boat is off the screen. At the same time, the temperature and speed boxes in the lower left corner are replaced with the distance and bearing from the boat to the cursor position and the latitude/longitude coordinates of the cursor.

Zooming: Use the Plus (+) key to Zoom In and the Minus (-) key to Zoom Out showing the cartography at different scales. The scale is indicated on the left side of the display. If you zoom in beyond the available chart data, the display will go into Overzoom mode whereby the last available chart data is

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amplified to reflect the scale selected. If you zoom in so far that no cartography is available, a lat/long grid will be drawn instead.

Chart Info: Use the INFO key to get detailed information about the chart. If the cursor is active, you will see information about the chart objects located near the cursor. If the cursor is not active, the Chart Info menu will appear. You can select the nearest port, the nearest tide station, or the nearest current station to see information about any of these objects.

NOTE: *The built-in UniMap™ does not contain any Port, Tide or Current information. This information is only available from optional-purchase MMC/SD cards.*

Nearest Port: The position and services information for the nearest port to your present position will be displayed. Press the EXIT key to remove the information box and the cursor bull's eye will be centered over the port position. The cursor information boxes at the bottom of the display will indicate the distance and bearing to the port from your present position.

Nearest Tide Station: Tide information for the nearest tide station to your present position will be displayed. This includes the position of the station and the times of the high and low tides for today's date. A tide graph is also displayed showing the rise and fall of the tides for the 24 hour time period encompassing the date. You can change the date to look at tide information before or after the date displayed by pressing the LEFT or RIGHT cursor key respectively. Press the EXIT key to remove the information box and the cursor bull's eye will be centered over the tide station position. The cursor information boxes at the bottom of the display will indicate the distance and bearing to the tide station from your present position.

Nearest Current Station: Current information for the nearest current station to your present position will be displayed. This includes the position of the station and the current changes for today. Two graphs are also presented that show the time, direction and flow speed of the current changes for the 24 hour time period of today's date. You can change the date to look at current information before or after the date displayed by pressing the LEFT or RIGHT cursor key respectively. Press the EXIT key to remove the information box and the cursor bull's eye will be centered over the current station position. The cursor information boxes at the bottom of the display will indicate the distance and bearing to the current station from your present position.

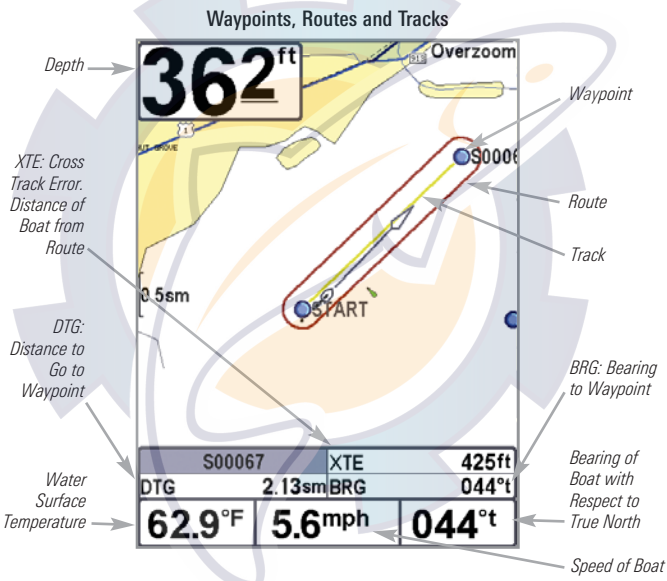
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Introduction to Navigation

Use your Fishing System to establish waypoints at areas of interest and to navigate to those waypoints via a savable route (representing the shortest intended distance between waypoints). You can also view and save tracks, which represent the actual path of the boat.

Waypoints, Routes and Tracks

Waypoints are stored positions that allow you to mark areas of interest or navigation points. Your Fishing System can store up to 3000 waypoints.



Routes link two or more waypoints together to create a path for navigation, and are used in trip planning. You can link individual waypoints together by using the GOTO key. A route represents your intended navigation and shows the shortest path from each waypoint to the next. As you travel a route, staying on the route line is the most efficient way to get to your destination, although you should always look out for obstacles not shown on the chart. Your 700 Series™ Fishing System can store up to 50 routes that can each contain up to 50 waypoints.

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Tracks consist of detailed position history, and are displayed as a breadcrumb trail of trackpoints. The Current Track shows the position history since the unit was powered up (maximum of 20,000 trackpoints displayed). You can clear the Current Track or save it at any time. Your 700 Series™ Fishing System can store up to 50 saved tracks, each containing 20,000 trackpoints. The current track represents your actual path so far.

Save, Edit, or Delete a Waypoint

Save your current position as a waypoint: On any view, press the MARK key to save the current position of the boat as a waypoint.

Save the cursor position as a waypoint: On the **Chart** or **Combo** view, use the Cursor key to designate the position you want to save as a waypoint. Then press the MARK key to save the marked position as a waypoint.

Save a position from the sonar history: On any Sonar view, use the Cursor key to point to a feature in the sonar history (also called the Sonar Saver feature). Press the MARK key to create a waypoint at the location where that sonar reading was taken. The new waypoint will also record the depth at that location.

__NOTE:__ When you save a waypoint by any of these methods, a numerical waypoint name is automatically assigned. You can edit the waypoint information later to give it a different name and select an icon to represent it (see __Waypoint submenu__ on the __Navigation Main Menu Tab__).

Display the Waypoints Submenu: From any view, press the MENU key twice to display the Main Menu System, then use the RIGHT Cursor key to select the Navigation tab. Select Waypoints and press the RIGHT Cursor key to display the Waypoints submenu.

Program a specific position as a waypoint: To create a waypoint that is NOT your current position, from the Waypoints submenu, select the Create option and press the RIGHT Cursor key. Use the Cursor keys to program a waypoint name, latitude, longitude, and icon before selecting Save.

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Edit a waypoint: From the Waypoints submenu, select Edit and press the RIGHT Cursor key to display a list of saved waypoints. Select the waypoint you want to edit and press the RIGHT Cursor key. Use the 4-WAY Cursor Control key to move from field to field, and the UP and DOWN Cursor keys to changes values once you are in a field. In the Waypoint Name, Latitude and Longitude fields, use the UP and DOWN Cursor keys to change the letter or number. All upper and lower case letters are available, as well as digits 0-9 and some punctuation characters. In the Waypoint Icon field, use the UP and DOWN Cursor keys to change the icon used to represent the waypoint on the Combo and Chart Views. You can exit these fields with the LEFT and RIGHT Cursor keys or by pressing the EXIT key. Select Save and press the RIGHT Cursor key to save your changes.

To make it easier to select a waypoint, select **Sort By** and press the RIGHT or LEFT Cursor keys to select a sort order:

- **Name** shows the waypoints alphabetically
- **Time** shows the most recently-created waypoint first
- **Distance** shows the closest waypoint first.

Delete a waypoint: From the Waypoints submenu, select Delete and press the RIGHT Cursor key to display a list of waypoints. Select the waypoint you want to delete, then press the RIGHT Cursor key. You will be asked to confirm deletion before the waypoint is actually deleted.

Navigate to a Waypoint or Position

Navigate to the cursor position: From the Chart or Combo view, use the Cursor key to select a position or waypoint to which you want to navigate. Press the GOTO key. Navigation will begin immediately.

Navigate to a specified waypoint: Press the GOTO key, then choose the waypoint to which you would like to navigate from the waypoint list and press the RIGHT Cursor key to select it.

__NOTE:__ By repeating the previous instructions, you can add more waypoints to create a longer multi-segment route.

Skipping a waypoint: From the Navigation X-Press™ menu, select Skip Next Waypoint and press the RIGHT Cursor key. If there is not another waypoint to skip to, navigation will be cancelled.

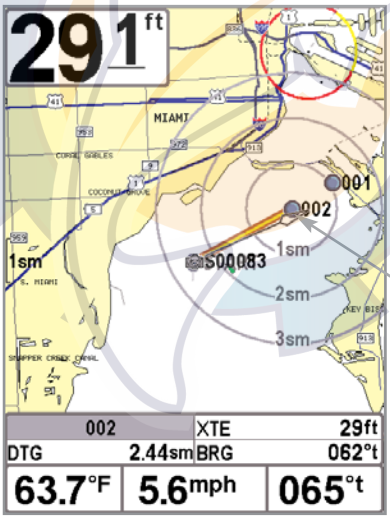
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Cancel navigation: From the Navigation X-Press™ menu, select Cancel Navigation and press the RIGHT Cursor key. Canceling navigation removes the route and any waypoints created using the GOTO key, but does not remove any saved routes from memory. You will be prompted to save the current route when you cancel navigation.

Add a Waypoint Target or Trolling Grid

Add or Remove a Waypoint Target: From the Waypoints submenu, select Target and press the RIGHT Cursor key to display a list of waypoints. Select the waypoint you want to target. A target consisting of concentric circles centered on the selected waypoint will appear on all of the navigation views; the target shows various distance ranges from the targeted waypoint. To remove the target, choose Remove Target from the Navigation X-Press™ menu.

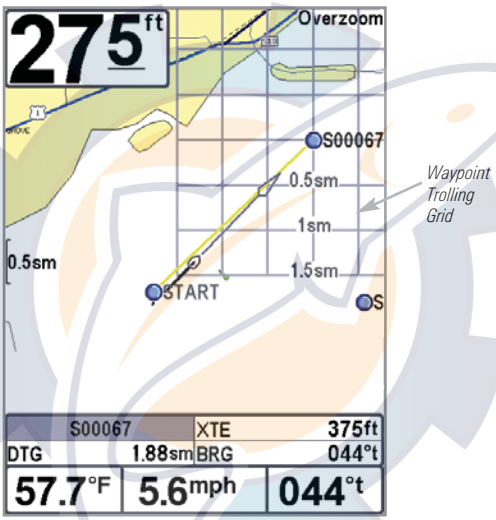
Chart View with Target



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Add or Remove a Trolling Grid: From the Waypoints submenu, select Grid and press the RIGHT Cursor key to display a list of waypoints. Select the waypoint to which you want to add the grid. The trolling grid will appear on all of the navigation views, and can be used as a guide when trolling around a waypoint. The grid can be rotated to any desired heading using Grid Rotation from the Navigation Main menu. To remove the trolling grid, choose Remove Grid from the Navigation X-Press™ menu.

Chart View with Grid



NOTE: *Only one waypoint can have either a target or a grid at one time. If you apply a target or a grid to a new waypoint, the original waypoint will lose its target or grid.*

NOTE: *The spacing of the rings on the waypoint target and the spacing of the grid lines on the trolling grid is the same as the length of the scale bar on the left edge of the display. Zooming in or out will decrease or increase the spacing, respectively.*

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Save, Edit or Delete a Route

Save the current route: While you are navigating, the current route can be saved. From the Navigation X-Press™ menu, select Save Current Route and press the RIGHT Cursor key. Navigation will continue.

Display the Routes submenu: From any view, press the MENU key twice to display the Main Menu System, then use the RIGHT Cursor key to select the Navigation tab. Select Routes and press the RIGHT Cursor key to display the Routes submenu.

Create a route: From the Routes submenu, select Create and press the RIGHT Cursor key. A Route Edit screen will be displayed with an empty route. You can name the route, add waypoints to the route from the list of all waypoints, and order the waypoints in the route using the Cursor keys.

Edit a saved route: From the Routes submenu, select Edit and press the RIGHT Cursor key. A Route Edit screen will be displayed. Select the route you wish to edit and press the RIGHT Cursor key. Re-name the route or change, delete or re-order the waypoints used in the route.

Delete a saved route: From the Routes submenu, select Delete and press the RIGHT Cursor key. Select the route you wish to delete and press the RIGHT Cursor key. You will be asked to confirm your choice by pressing the RIGHT Cursor key again before the route is deleted.

Travel a saved route: From the Routes submenu, select Travel and press the RIGHT Cursor key. A list of saved routes will appear. Select the route you wish to travel and press the RIGHT Cursor key to make this route the current route and begin navigation. You may also travel the route in either forward or reverse order.

Route Info: From the Routes submenu, select Info and press the RIGHT Cursor key. A list of saved routes will appear. Select the route for which you want information, and press the RIGHT Cursor key. The list of waypoints in the route will be shown, with the distance and bearing from each waypoint to the next, as well as the distance and bearing from the current position to the first waypoint in the route.

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Save or Clear a Current Track

Save the current track: From the Navigation X-Press™ menu, select Save Current Track and press the RIGHT Cursor key. The track will remain on the display, but will change from black to gray. To remove the track completely from the display, see Edit, Delete or Hide Saved Tracks.

__NOTE:__ When you save a track, a name is automatically assigned. The track name consists of a date/time stamp, but can be re-named later (see __Edit a Saved Track__).

Clear the current track: From the Navigation X-Press™ menu, select Clear Current Track and press the RIGHT Cursor key. The track will be removed from the display and discarded.

Edit, Delete or Hide Saved Tracks

Display the Tracks Submenu: From any view, press the MENU key twice to display the Main Menu System, then use the RIGHT Cursor key to select the Navigation tab. Select Tracks and press the RIGHT Cursor key to display the Tracks submenu.

Edit a saved track: From the Tracks submenu, select Edit and press the RIGHT Cursor key to display the list of saved tracks. Select the track you want to edit and press the RIGHT Cursor key. When the Edit Track dialog box appears, use the Cursor keys to move between fields. In the Track Name field, the UP and DOWN Cursor keys change the letter or number. All upper and lower case letters are available, as well as digits 0-9 and some punctuation characters. You can exit the Track Name field with the LEFT and RIGHT Cursor keys or by pressing the EXIT key. Select Save and press the RIGHT Cursor key to save your changes.

Delete a saved track: From the Tracks submenu, select Delete and press the RIGHT Cursor key to display the list of saved tracks. Select the track you want to delete and press the RIGHT Cursor key. You will be asked to confirm deletion before the track is actually deleted.

Hide or display a saved track: From the Tracks submenu, select Visibility and press the RIGHT Cursor key to display the list of saved tracks. Select the track you want to hide or display and use the Cursor keys to select Hidden or Visible. Press the EXIT key to return to the Tracks submenu.

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Man Overboard (MOB) Navigation

As soon as you know that you have a man overboard, you should activate MOB navigation to maximize chances for a successful rescue. MOB navigation allows you create an MOB waypoint to locate the point at which your man went overboard, and the relation of the boat to that point. When MOB is activated, an MOB waypoint, which is a permanent, sharable waypoint with a large, distinctive icon, is created at the boat's current position (regardless of whether the chart cursor is active or not). Any current navigation will be cancelled and the current route discarded without user notification, and MOB navigation will begin immediately. A line will be drawn from the boat's current position to the MOB waypoint, and the MOB waypoint will be targeted. The view is switched to the Chart View automatically when MOB is activated, and an additional info box that shows the lat/lon position of the MOB waypoint and the elapsed time since MOB was activated is added to the Chart View.

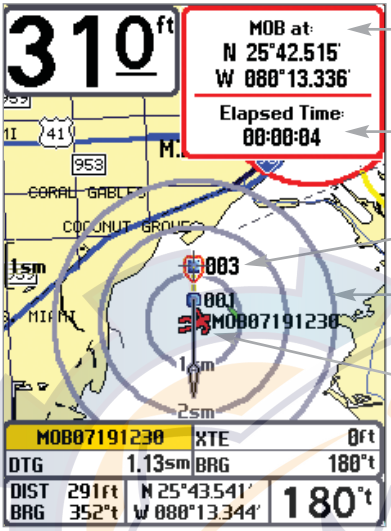
It is not possible to re-activate MOB or modify the current route without first canceling MOB navigation.. The Off Course trigger is also disabled and the Off Course Alarm circle is not drawn. Any press of the GOTO key, or selection of a GOTO menu item, will cause an error beep and a short message will be displayed to the user that will disappear after 2 seconds.

Activate MOB navigation: Press and hold the GOTO key for more than 1.5 seconds to activate the Man Overboard (MOB) function.

Cancel MOB navigation: From the Navigation X-Press™ menu, select Cancel MOB and press the RIGHT Cursor key. Canceling MOB navigation removes the route and any waypoints created using the GOTO key, but does not remove any saved routes from memory.

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MOB Navigation



Position where man fell overboard

Elapsed time since MOB was activated

Boat's current position

Target surrounding MOB waypoint

MOB waypoint

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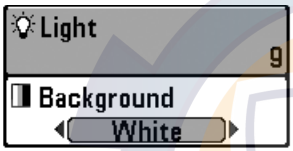
Key Functions

Your Fishing System user interface consists of a set of easy-to-use keys that work with various on-screen views and menus to give you flexibility and control over your fishing experience.



POWER/LIGHT Key

The POWER/LIGHT key is used to turn the Fishing System on and off, and also to adjust the backlight and contrast of the display. Press the POWER/LIGHT key to turn the unit on. The Title screen is then displayed until the Fishing System begins sonar operation.



To adjust the backlight, or to adjust the display background color, press the POWER/LIGHT key to access the Light and Background menu. Use the 4-WAY Cursor key to select Light or Background and then use the LEFT or RIGHT Cursor key to change the settings. Press EXIT to exit the Light and Background menu.

Press and hold the POWER/LIGHT key for 3 seconds to turn the unit off. A message will appear telling you how many seconds there are until shutdown occurs. Your Fishing System should always be turned off using the POWER/LIGHT key. This will ensure that shutdown occurs properly and any menu settings will be saved.



VIEW Key

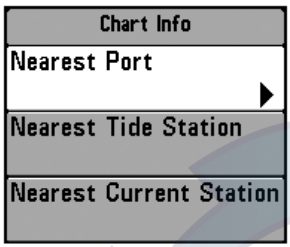
The VIEW key is used to cycle through all available views. Press the VIEW key to advance to the next view. Repeatedly pressing VIEW cycles through all views available. Views can be hidden to optimize the system to your fishing requirements (see *Views Menu Tab*).

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INFO Key

Info - Press the INFO key while in Bird's Eye, Chart or Combo View to display information about objects that are nearest to an active cursor.



If the cursor is not active, the following menu will be displayed. Use the 4-WAY Cursor key to select Nearest Port, Nearest Tide Station or Nearest Current Station, then use the RIGHT Cursor key to display the requested information.

__NOTE:__ The built-in UniMap™ does not contain Port, Tide or Current information. This information is only available from optional purchase MMC/SD cards.



MENU Key

The MENU key is used to access the menu system.

Start-Up Options Menu - Press the MENU key during the power up sequence to view the Start-Up Options menu.

X-Press™ Menu - Press the MENU key once for the X-Press™ Menu. The X-Press™ menu allows you to access frequently-used settings without having to navigate through the whole menu system. When the X-Press™ menu is displayed, you can use the UP or DOWN Cursor keys to move to a particular menu choice. As soon as you alter a parameter (using the RIGHT or LEFT Cursor keys) the X-Press™ menu will collapse temporarily, and the screen will update if it is affected by your menu setting change, allowing you to see the effects of your action immediately. Reactivate the X-Press™ Menu by using the UP or DOWN Cursor keys.

Main Menu - Press the MENU key twice for the tabbed Main Menu System. The Main Menu System is organized under tabbed headings to help you find a specific menu item quickly: Alarms, Sonar, Navigation, Chart, Setup, Views and Accessories tabs are part of your tabbed Main Menu System. Use the LEFT or RIGHT 4-WAY Cursor Control key to select a tab; then use the DOWN or UP key to select the menu item, and the LEFT or RIGHT key to alter a menu setting.

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4-WAY Cursor Control Key

The 4-Way Cursor Control Key has multiple functions, depending on the situation:

- Use the DOWN or UP arrow keys to select a menu choice from the menu list, then use the LEFT or RIGHT arrow keys to change a menu setting.

NOTE: *Menu choices are implemented and saved immediately - no further action is required.*

- In all Sonar views but the Big Digits view, pressing any 4-WAY Cursor Control key will activate Freeze Frame and will then allow you to position the cursor on the display.
- In the Snapshot and Recording View, highlighting a recording icon and pressing the Right 4-WAY Cursor Control key starts recording playback, and the Right and Left keys are used to control the speed of playback.



MARK Key

Press the MARK key while in any view to mark the position of a waypoint, either at the current boat location, or, if the Cursor is active, at the current Cursor location.

The MARK key only functions if you have the GPS receiver connected, or if you have enabled Screen Snapshot from the Accessories menu tab. If you have enabled the Screen Snapshot feature, pressing the MARK key still creates a waypoint, but it also captures the screen image to the optional-purchase MMC/SD card.

NOTE: *You must have an optional-purchase MMC/SD card installed for the screen snapshot feature to work.*

Navigation is not affected by the Screen Snapshot feature. Also, if Screen Snapshot is enabled but there is no GPS receiver connected, pressing the MARK key will capture the screen image and display an error saying that a GPS position fix is required to create a waypoint.

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GOTO Key

The GOTO Key has multiple functions, depending on the situation:

- If the Cursor is active, pressing the GOTO key while in any view creates a waypoint and starts navigation towards that waypoint. If the Cursor is not active, pressing the GOTO key displays the list of waypoints, so that you can select the waypoint towards which you want to navigate.
- If the GOTO key is pressed and held for more than 1.5 seconds, the Man Overboard (MOB) function is activated. When MOB is activated, an MOB waypoint, which is a permanent, sharable waypoint with a large, distinctive icon, is created at the boat's current position (regardless of whether the chart cursor is active or not). Any current navigation will be cancelled and the current route discarded without user notification, and MOB navigation begins immediately. The view is switched to the Chart View automatically when MOB is activated, and it is not possible to activate MOB or modify the current route without first canceling MOB navigation. Any press of the GOTO key, or selection of a GOTO menu item, will cause an error beep and a short message will be displayed to the user that will disappear after 2 seconds.



ZOOM (+/-) Key

Press the - or + ZOOM keys while in any of the Navigation Views or the Sonar Zoom View to change the scale of the view to appear closer or farther away.

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EXIT Key

The EXIT key has multiple functions, depending on the situation:

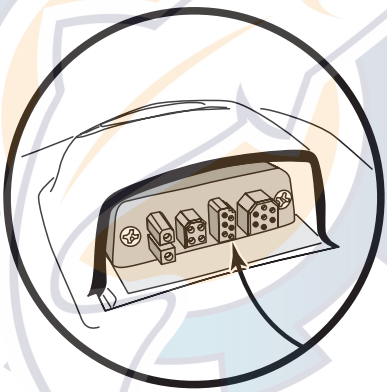
- If an alarm is sounding, pressing EXIT will cancel the alarm.
- If a menu tab is selected, pressing EXIT will exit the menu mode and return to the view.
- If a menu is active, pressing EXIT will return to the previous level in the menu system.
- Pressing EXIT will cycle through the available views in reverse order.
- If Freeze Frame is active, pressing EXIT will return to a scrolling display.
- If the Cursor is active, pressing EXIT will remove the cursor from the display.

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Accessory Bus

Use the Accessory Bus to expand the functionality of your Fishing System. Accessories plug directly into the Fishing System, enabling Advanced features such as WeatherSense® and the SmartCast® Wireless Sonar Link. Additional tabs and menu choices will be added to the menu system automatically when an accessory is plugged into the unit. In addition, multiple accessories can be attached simultaneously. See ***Accessories Menu Tab*** and ***700 Series™ Fishing System Accessories*** in this manual, as well as your accessory's Operations Manual for additional details.

NOTE: *Accessories to enable WeatherSense® and the SmartCast® Wireless Sonar Link require separate purchases. You can visit our website at* ***www.humminbird.com*** *or contact our Customer Resource Center at* ***1-800-633-1468*** *for additional details.*

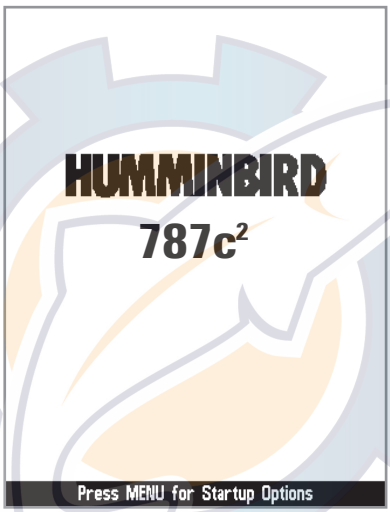


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Powering Up the Unit

Turn on your Fishing System by pressing the POWER/LIGHT key. The Title screen is displayed until the Fishing System begins operation. Your Fishing System will begin Normal or Simulator operation, depending on the presence or absence of a transducer.

787c² Title Screen

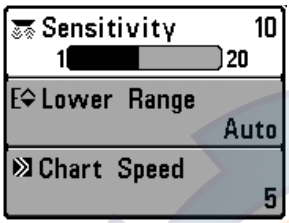


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The Menu System

The menu system is divided into easy-to-use menu modules. The main components of the menu system are:

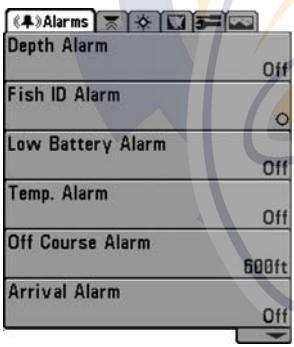
Start-Up Options Menu - Press the MENU key during the power up sequence to view the Start-Up Options menu.



X-Press™ Menu

X-Press™ Menu - The X-Press™ Menu allows you to access the settings that are changed frequently without having to navigate through the whole menu system. Press the MENU key once to display the X-Press™ Menu. When you select a menu item from the X-Press™ Menu, the menu will collapse, leaving only the menu choice on the screen. Use the UP or DOWN Cursor keys to reactivate the X-Press™ Menu.

NOTE: *The X-Press™ Menu choices will vary depending on which view is active when you press the MENU key, as well as whether you are in Normal or Advanced User Mode. Either the Sonar, Navigation, or Screen Snapshot X-Press™ Menu will appear, depending on the view you are in.*



Main Menu System
Normal User Mode

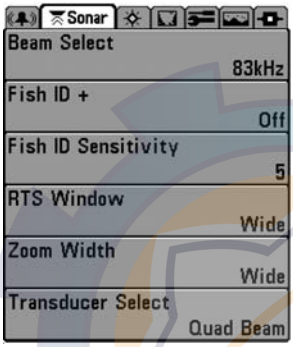
Main Menu Tabs - Less frequently-adjusted menus are grouped into the Main Menu System. The Main Menu system is organized under the following tab headings to help you find a specific menu item quickly: Alarms, Sonar, Navigation, Chart, Setup, Views and Accessories.

Press the MENU key twice for the Main Menu, then use the 4-WAY Cursor LEFT or RIGHT key to select a tab, and use the DOWN or UP key to select a specific menu item under that tab, then use the LEFT or RIGHT keys again to change a menu setting. Press the EXIT key to move quickly to the top of the tab. A down arrow at the bottom of a menu means that you can scroll to additional menu choices using the DOWN Cursor key. A right or left arrow on a menu choice means that you can use the RIGHT or LEFT Cursor keys to make changes or to see more information.

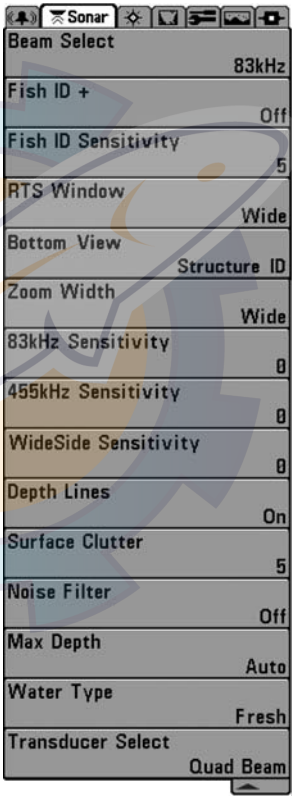
NOTE: *The Main Menu choices will vary depending on whether you are in Normal or Advanced User Mode.*

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User Mode (Normal or Advanced) - An Advanced Mode is provided for users who desire the highest level of control over the Fishing System and Normal Mode for users who desire greater simplicity and fewer menu choices. Additional Advanced menu choices will be displayed throughout the menu system when you navigate to specific menus while in Advanced Mode. Any changes made while in Advanced Mode will remain in effect after you switch back to Normal Mode. See ***Setup Menu Tab: User Mode*** for specific instructions on changing to Advanced User Mode.



Sonar Tab, Normal Mode



Sonar Tab, Advanced Mode

Total Screen Update - when you change any menu settings that affect the Sonar View, the view will update immediately (i.e. you don't have to exit the menu to apply the change to the screen).

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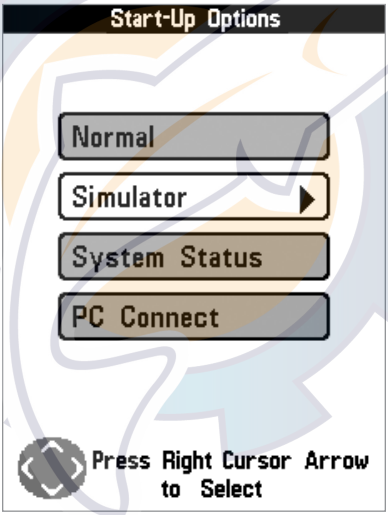
Start-Up Options Menu

Press the MENU key when the Title screen is displayed to access the Start-Up Options menu.

Use the UP or DOWN 4-WAY Cursor keys to position the cursor, then the RIGHT Cursor key to select one of the following choices. If you wait too long, the system will default to whichever menu mode happens to be highlighted:

- Normal
- Simulator
- System Status
- PC Connect (use with PC Connect Cable).

See the following paragraphs for more information about each of these choices.



Normal Operation

Use **Normal Operation** for on the water operation with a transducer connected. In addition, your Fishing System uses advanced transducer detection methods to determine if a transducer is connected. If a functioning transducer is connected, Normal operation will be selected automatically at power up and your Fishing System can be used on the water.

Exit Normal operation by powering your Fishing System off.

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Simulator

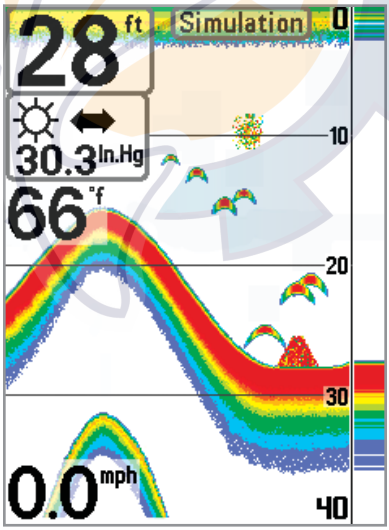
Use the Simulator to learn how to use your Fishing System before taking your boat on the water. The Simulator is a very powerful tool that simulates on the water operation, providing a randomly-updated display. We recommend going through this manual while using the Simulator, since all of the menus function and affect the display the way they actually do when in Normal operation.

NOTE: *To get the full benefit of the Simulator, it is important to select Simulator manually from the Start-Up Options menu as opposed to letting the Fishing System enter Simulator automatically (as it will if a transducer is not connected and you do nothing during power up). Manually selecting Simulator from the Start-Up Options menu allows you to pre-configure your Fishing System for on the water operation. Any menu changes you make will be saved for later use.*

A message will appear on the display periodically to remind you that you are using the Simulator.

Exit the Simulator by powering your Fishing System off.

Simulator (shown with optional-purchase Weathersense® attached)



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System Status

Use **System Status** to view system connections and to conduct a unit self-test.

The following screens are displayed in turn when you press the VIEW button when using System Status:

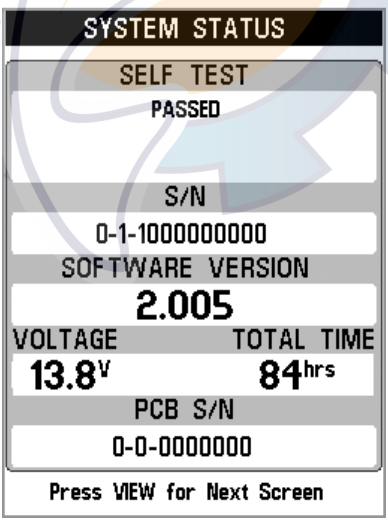
- Self Test
- Accessory Test
- GPS Diagnostic View.

Exit System Status by powering your Fishing System off.

Self Test

Self Test displays results from the internal diagnostic self test, including unit serial number, Printed Circuit Board (PCB) serial number, software revision, total hours of operation and the input voltage.

Self Test Screen

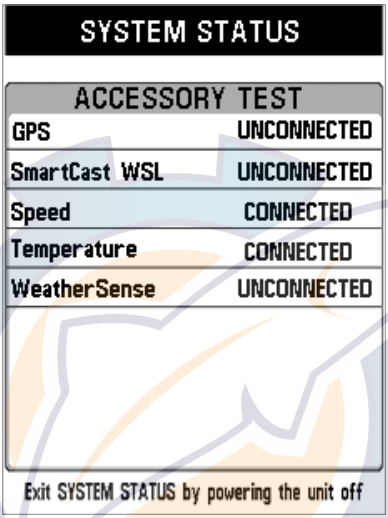


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Accessory Test

Accessory Test lists the accessories connected to the system.

System Status Accessory Test Screen



NOTE: *The speed accessory will be detected only if the paddlewheel has moved since your Fishing System was powered up.*

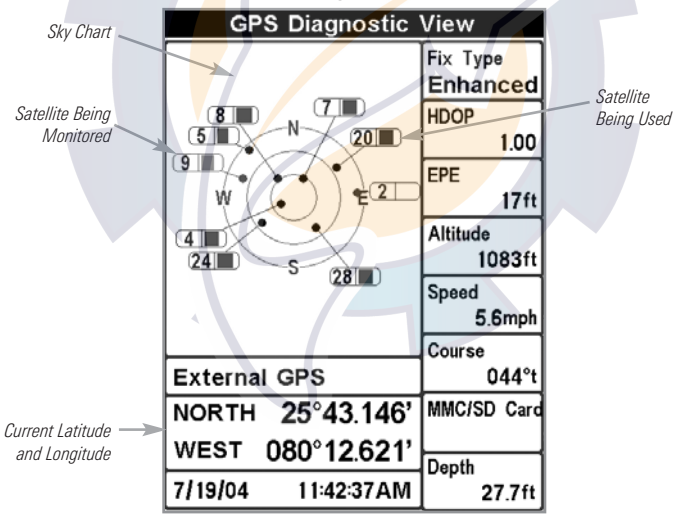
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GPS Diagnostic View

GPS Diagnostic View shows a sky chart and numerical data from the GPS receiver. The sky chart shows the location of each visible GPS satellite with its satellite number and a signal strength bar. A dark gray bar indicates that the satellite is being used to determine your current position. A light orange bar indicates that the satellite is being monitored, but is not yet being used.

This view also reports the current position, local time and date, and other numeric information. The current GPS Fix Type is reported as No Fix, 2D Fix, 3D Fix, or Enhanced. An Enhanced fix has been augmented using information from WAAS, EGNOS, or MSAS. A 3D or Enhanced Fix is required for navigation. HDOP (the Horizontal Dilution of Precision) is a GPS system parameter which depends on the current satellite configuration. HDOP is used to calculate the Estimated Position Error.

GPS Diagnostic View



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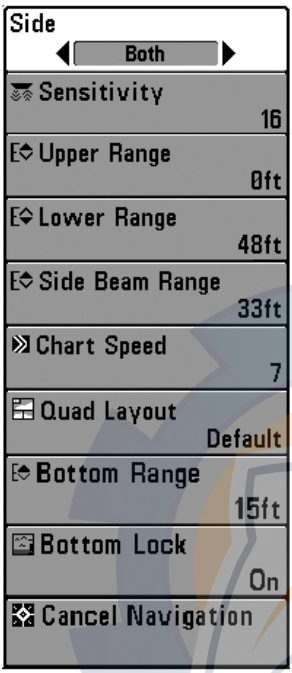
PC Connect *(with PC Connect cable only)*

Use **PC Connec**t to update the software of the Fishing System control head. This feature requires the use of the PC Connect Cable. Complete instructions are included with the PC Connect Cable accessory.

> ***NOTE:*** *The PC Connect Cable requires a separate purchase. For more information visit our website at* ***www.humminbird.com*** *or contact our Customer Resource Center at* ***1-800-633-1468****.*

Exit PC Connect mode by powering the Fishing System off.

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Sonar X-Press™ Menu

Sonar X-Press™ Menu

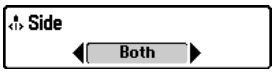
(Sonar views only)

The **Sonar X-Press**™ menu provides access to the settings most frequently-used. Press the MENU key once while in any of the Sonar Views to access the Sonar X-Press™ menu.

NOTE: *Menu choices will vary depending on system settings such as whether the unit is set for Advanced User mode or what transducer is currently selected.*

NOTE: *Quad Layout only appears in Side Beam View with optional-purchase QuadraBeam PLUS™ transducer.*

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Side

(WideSide® transducer: WideSide® view only)

Side sets which transducer beam from the WideSide® Transducer is shown in the WideSide® View. A WideSide® transducer must be connected to the Fishing System. The Side menu choice is available when Transducer Select is set to WideSide® (see ***Sonar Menu Tab: Transducer Select***) and can only be accessed from the Sonar X-Press™ menu when you are in WideSide® view.

NOTE: *Side requires the purchase of the WideSide® transducer. You can visit our website at* ***www.humminbird.com*** *to order this accessory online or contact our Customer Resource Center at* ***1-800-633-1468****.*

To adjust the Side:

1. Make sure you are in WideSide® Transducer Mode and that a WideSide® transducer is connected, then highlight Side on the Sonar X-Press™ menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Side setting. (L [Left], Both, R [Right], Default = Both).

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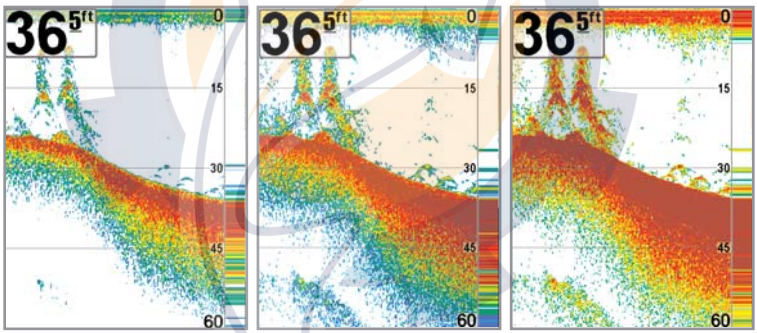


Sensitivity

Sensitivity controls how much detail is shown on the display and will adjust the sensitivity of all sonar frequencies. Increasing the sensitivity shows more sonar returns from small baitfish and suspended debris in the water; however, the display may become too cluttered. When operating in very clear water or greater depths, increased sensitivity shows weaker returns that may be of interest. Decreasing the sensitivity eliminates the clutter from the display that is sometimes present in murky or muddy water. If Sensitivity is adjusted too low, the display may not show many sonar returns that could be fish.

NOTE: *The Sensitivity setting is a global setting and will adjust the sensitivity of all sonar frequencies, as compared to specific sensitivity adjustments (such as 83 kHz Sensitivity, 455 kHz Balance or Wideside Sensitivity) which allow you to adjust the level of sensitivity for one specific beam at a time.*

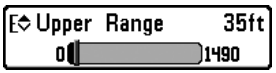
Sensitivity at Low | Sensitivity at Medium | Sensitivity at High



<u>To adjust the Sensitivity:</u>

1. Highlight Sensitivity on the Sonar X-Press™ Menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to increase or decrease the Sensitivity setting. (Low = 1, High = 20, Default = 10)

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Upper Range

(Advanced: Sonar, Split Sonar, Big Digits and Circular Flasher Views only)

Upper Range sets the shallowest depth range that will be displayed on the Sonar, Split Sonar, Big Digits and Circular Flasher views. The Upper Range menu choice is available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***) and can only be accessed from the Sonar, Split Sonar, Big Digits and Circular Flasher views. Upper Range is often used with Lower Range.

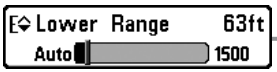
For example, if you are only interested in the area between 20 and 50 feet deep, you should set the Upper Depth Range to 20 and the Lower Depth Range to 50. The Sonar View will then show the 30 foot area between 20 and 50, and will not show the surface or the bottom (assuming the bottom is deeper than 50 feet), and will show greater detail for that area between 20 and 50 feet.

NOTE: *A minimum distance of 10 feet will be maintained between the Upper and Lower Range regardless of the manual settings entered.*

To adjust the Upper Range:

1. Make sure you are in Advanced Mode, then highlight Upper Range on the Sonar X-Press™ Menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to increase or decrease the Upper Range setting. (0 to 1490 feet or 0 to 497 meters *[International Models only]*, Default = 0)

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Lower Range

Lower Range sets the deepest depth range that will be displayed. Automatic is the default setting. When in automatic mode, the lower range will be adjusted by the unit to follow the bottom. Selecting a specific setting locks the depth range into Manual mode. Use both Upper and Lower Range together to view a specific depth range manually when looking for fish or bottom structure. **M** will be displayed in the lower right corner of the screen when you start manually adjusting the Lower Range to indicate that you are in Manual mode.

For example, if you are fishing in 60 feet of water but are only interested in the first 30 feet (surface to a depth of 30 feet) you should set the Lower Depth Range limit to 30. The display will show the 0 to 30 foot range, allowing you to see a more detailed view than you would see if the display went all the way to the bottom.

NOTE: *A minimum distance of 10 feet will be maintained between the Upper and Lower Range regardless of the manual settings entered.*

<u>To adjust the Lower Range:</u>

1. Highlight Lower Range on the Sonar X-Press™ Menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to increase or decrease the Lower Range setting. (AUTO, 10 to 1500 feet, 3 to 500 meters ***[International Models only]***, Default = AUTO)

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Side Beam Range

(WideSide® transducer: WideSide® view only)

Side Beam Range sets the deepest range that will be displayed in the WideSide® View. The range must be set manually to keep the bottom visible on the display. If the Side Beam Range is set too deep for current depth conditions the sonar information will become compressed on the display and valuable detail will be lost. A WideSide® transducer must be connected to the Fishing System. Side Beam Range menu choice is available when Transducer Select is set to WideSide® (see ***Sonar Menu Tab: Transducer Select***) and can only be accessed from the WideSide® view.

NOTE: *The Side Beam Range requires the purchase of the WideSide® transducer. You can visit our website at* ***www.humminbird.com*** *to order this accessory online or contact our Customer Resource Center at* ***1-800-633-1468****.*

To adjust the Side Beam Range:

1. Make sure you are in WideSide® Transducer Mode, a WideSide® transducer is connected and that you are in WideSide View, then highlight Side Beam Range on the Sonar X-Press™ menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to increase or decrease the Side Beam Range setting. (6 - 160 feet [2 - 50 meters] ***[International Models only]***, Default = 160 feet [50 meters])

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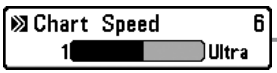
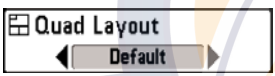


Chart Speed

Chart Speed determines the speed at which the sonar information moves across the display, and consequently the amount of detail shown. A faster speed shows more information and is preferred by most anglers; however, the sonar information moves across the display quickly. A slower speed keeps the information on the display longer, but the bottom and fish details become compressed and may be difficult to interpret. Regardless of the Chart Speed setting, the RTS® Window will update at the maximum rate possible for the depth conditions. Adjust Chart Speed to your personal preference.

To adjust the Chart Speed:

1. Highlight Chart Speed on the Sonar X-Press™ Menu.
2. Use the LEFT or RIGHT 4-Way Cursor Control keys to increase or decrease the Chart Speed setting. (1-9, Ultra, where 1 = Slow, 9 = Fast, Ultra = Fastest, Default = 5)



Quad Layout

(with Optional-Purchase QuadraBeam PLUS™ Transducer, Side Beam View only)

Quad Layout selects the method used to represent the sonar information from the two side-looking beams plus the down-looking beam to be presented on the Side Beam View, and is only available when an optional-purchase QuadraBeam PLUS™ transducer is attached and the Side Beam View is active. Use Quad Layout to change the way the Side Beam View is displayed. See ***Side Beam View*** for more information.

To adjust the Quad Layout:

1. Highlight Quad Layout on the Sonar X-Press™ menu.
2. Use the LEFT or RIGHT 4-Way Cursor Control keys to change the Quad Layout setting for the Side Beam View. (Default, Classic, Slanted, Default = Default)

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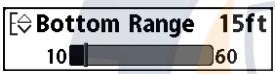
Bottom Lock

(Sonar Zoom view only)

Bottom Lock changes the mode of the Zoomed view in the Sonar Zoom View. Bottom Lock continuously graphs the bottom at a constant point on the display regardless of changes in depth. This "flattens" out the bottom contour, but is effective at showing fish on or near the bottom.

To turn on Bottom Lock:

1. In the Sonar Zoom View, highlight Bottom Lock on the Sonar X-Press™ Menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Bottom Lock setting to on. (Off, On, Default = Off)



Bottom Range

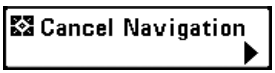
(Sonar Zoom view only when Bottom Lock is On)

Bottom Range allows you to control how much of the water column, measured up from the bottom, is shown in the Sonar Zoom View. Choose a small value to see low-lying bottom structure or details of the bottom return. Choose a larger value to see large structure in deeper water. It is possible to set the Bottom Range to be greater than the depth. In this case, you may see surface clutter in a wavy band that mirrors changes in the depth.

To adjust the Bottom Range:

1. In the Sonar Zoom View, highlight Bottom Lock on the Sonar X-Press™ Menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Bottom Lock setting to on.
3. Once you turn on Bottom Lock, the Bottom Range X-Press™ menu choice will be displayed. (10 - 60 feet, 2-10 fathoms, or 3-20 meters *[International Models only]*, Default = 15 feet)

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Cancel Navigation

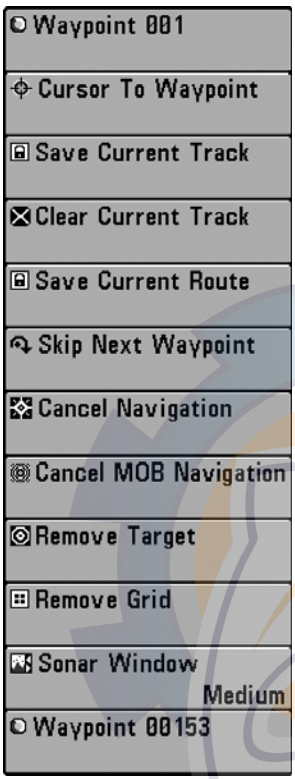
(only when Navigating)

Cancel Navigation discards the current route and exits Navigation Mode. This menu choice will only appear when you are currently navigating a route. This will not delete a previously-saved route.

To Cancel Navigation:

1. Highlight Cancel Navigation on the Sonar X-Press™ menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate canceling navigation.
3. The Confirm dialog box will appear. To cancel navigation, press the RIGHT Cursor key once more. To avoid canceling navigation, press the LEFT Cursor key.

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Navigation X-Press™ Menu

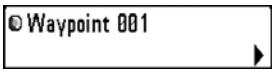
Navigation X-Press™ Menu

(Navigation views only)

The **Navigation X-Press™ menu** provides access to the settings most frequently used. Press the MENU key once while in the Bird's Eye View, the Chart or the Combo View to access the Navigation X-Press™ menu.

NOTE: *Menu choices will vary depending on system settings, such as whether you are currently navigating.*

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Waypoint [Name]

(Only with an active cursor on a waypoint)

Waypoint [Name] allows you to view the Waypoints submenu for the waypoint under your cursor.

To view the Waypoint [Name] Submenu:

1. Move the cursor onto an existing waypoint and press the MENU key once, or use **Cursor to Waypoint** to select a waypoint from a list of saved waypoints.
2. Highlight **Waypoint [Name]** on the Navigation X-Press™ menu.
3. Use the RIGHT 4-Way Cursor Control key to view the Waypoints submenu, which contains the following menu choices:



Waypoint Submenu

The Waypoint Submenu contains the following menu choices:

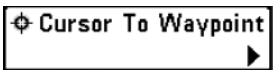
Edit allows you to edit the Name, Position (Latitude and Longitude) and select the Icon that will be used to represent the waypoint in the Chart and Combo Views.

Delete allows you to delete a waypoint from the list of saved waypoints.

Target allows you to apply a target to a waypoint selected from the list of waypoints.

Grid allows you to apply a trolling grid to a waypoint selected from the list of waypoints.

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Cursor to Waypoint

(Chart or Combo view only)

Cursor to Waypoint allows you to quickly move the cursor to any saved waypoint, so that you can locate it or edit it.

NOTE: *This X-Press™ menu item appears only if you have saved waypoints.*

To move cursor to a saved waypoint:

1. Highlight Cursor to Waypoint on the Navigation X-Press™ menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate Cursor to Waypoint.
3. Use the UP or DOWN 4-WAY Cursor Control key to highlight the waypoint you wish to move the cursor to, then use the RIGHT 4-WAY Cusor Control key to select the destination waypoint.



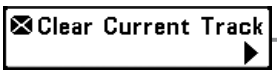
Save Current Track

Save Current Track allows you to save the current track being displayed. After the current track is saved, a new current track is started.

To Save Current Track:

1. Highlight Save Current Track on the Navigation X-Press™ menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate saving the current track.
3. The Confirm dialog box will appear. To save the current track, press the RIGHT Cursor key once more. To cancel saving the current track, press the LEFT Cursor key.

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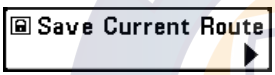


Clear Current Track

Clear Current Track allows you to clear the current track being displayed and start a new track at the present position.

To Clear Current Track:

1. Highlight Clear Current Track on the Navigation X-Press™ menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate clearing the current track.
3. The Confirm dialog box will appear. To clear the current track, press the RIGHT Cursor key once more. To cancel clearing the current track, press the LEFT Cursor key.



Save Current Route

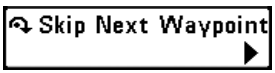
(only when Navigating)

Save Current Route allows you to save the current route being displayed. This menu choice will only appear when you are currently navigating a route.

To Save Current Route:

1. Highlight Save Current Route on the Navigation X-Press™ menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate saving the current route.
3. The Confirm dialog box will appear. To save the current route, press the RIGHT Cursor key once more. To cancel saving the current route, press the LEFT Cursor key.

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Skip Next Waypoint

(only when Navigating)

Skip Next Waypoint removes the next waypoint from the current route. This menu choice will only appear when you are currently navigating a route.

To Skip Next Waypoint:

1. Highlight Skip Next Waypoint on the Navigation X-Press™ menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate skipping the next waypoint.
3. The Confirm dialog box will appear. To skip the next waypoint, press the RIGHT Cursor key once more. To cancel skipping the next waypoint, press the LEFT Cursor key.



Cancel Navigation

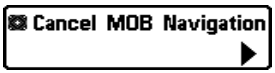
(only when Navigating)

Cancel Navigation discards the current route and exits Navigation Mode. This menu choice will only appear when you are currently navigating a route. This will not delete a previously-saved route.

To Cancel Navigation:

1. Highlight Cancel Navigation on the Navigation X-Press™ menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate canceling navigation.
3. The Confirm dialog box will appear. To cancel navigation, press the RIGHT Cursor key once more. To avoid canceling navigation, press the LEFT Cursor key.

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Cancel MOB Navigation

(only when MOB Navigation is activated)

Cancel MOB Navigation removes the Man Overboard (MOB) waypoint and exits Man Overboard mode. This menu choice will only appear when you are currently navigating in Man Overboard mode.

To Cancel MOB Navigation:

1. Highlight Cancel MOB Navigation on the Navigation X-Press™ menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate canceling MOB navigation.
3. The Confirm dialog box will appear. To cancel MOB navigation, press the RIGHT Cursor key once more. To avoid canceling MOB navigation, press the LEFT Cursor key.



Remove Target

(only if a Target is Active)

Remove Target removes the waypoint target from the display. This menu choice will only appear when a target has already been applied to a waypoint.

*NOTE: See **Add a Waypoint Target or Trolling Grid** for more information.*

To Remove a Target:

1. Highlight Remove Target on the Navigation X-Press™ menu.
2. Use the RIGHT 4-WAY Cursor Control key to remove the target.

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Remove Grid

(only if a Grid is Active)

Remove Grid removes the waypoint grid from the display. This menu choice will only appear when a grid has already been applied to a waypoint.

*NOTE: See **Add a Waypoint Target or Trolling Grid** for more information.*

To Remove a Grid:

1. Highlight Remove Grid on the Navigation X-Press™ menu.
2. Use the RIGHT 4-WAY Cursor Control key to remove the grid.



Sonar Window

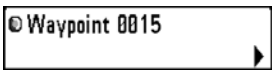
(Combo view only)

Sonar Window sets the size of the Sonar Window in the Combo View. Sonar Window can only be accessed from the Combo View.

To Set the Size of the Sonar Window in the Combo View:

1. Highlight Sonar Window on the Navigation X-Press™ menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to adjust the size of the sonar window. (Wide, Medium, Narrow, Default = Medium)

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Waypoint [Name]

(Most recently-created waypoint)

Waypoint [Name] allows you to view the waypoints submenu for the most recently created waypoint.

NOTE: *You must have pressed the MARK key at least once since you last powered up the Fishing System for this menu choice to appear.*

To view the Waypoint [Name] Submenu:

1. Move the cursor to the desired position and press the MARK key once to save a waypoint.
2. Highlight Waypoint[Name] on the Navigation X-Press™ menu.
3. Use the RIGHT 4-Way Cursor Control key to view the Waypoints submenu.



Waypoint [Name] Submenu

The Waypoint Submenu contains the following menu choices:

Edit allows you to edit the Name, Position (Latitude and Longitude) and select the Icon that will be used to represent the waypoint in the Chart and Combo Views.

Delete allows you to delete a waypoint from the list of saved waypoints.

Go To allows you to select a waypoint and start navigation toward that waypoint, or add that waypoint to the end of the current route.

Target allows you to apply a target to a waypoint selected from the list of waypoints.

Grid allows you to apply a trolling grid to a waypoint selected from the list of waypoints.

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Snapshot and Recording X-Press™ Menu

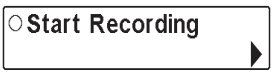
Snapshot and Recording X-Press™ Menu

(Snapshot and Recording View only)

The **Snapshot and Recording X-Press™** menu provides access to the image management and sonar recording functions. Press the MENU key once while in the Snapshot and Recording View to access the Snapshot and Recording X-Press™ menu.

NOTE: *For more information, see* ***Snapshot and Recording View****.*

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Start Recording

(optional-purchase MMC/SD Card, Snapshot and Recording View only)

Start Recording allows you to start sonar recording from the Snapshot and Recording View. This menu option is only available when you have an optional-purchase MMC/SD card installed and you are in Snapshot and Recording View.

To start sonar recording:

1. Highlight Start Recording on the Snapshot and Recording X-Press™ menu, and press the RIGHT 4-Way Cursor key to start recording.



Stop Recording

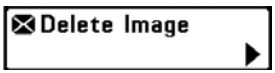
(optional-purchase MMC/SD Card only)

Stop Recording allows you to stop sonar recording. This menu option is only available when you have an optional-purchase MMC/SD card installed.

To stop sonar recording:

1. To stop recording, highlight Stop Recording from any X-Press™ menu.
2. Press the RIGHT 4-Way Cursor key.

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Delete Image

(optional-purchase MMC/SD Card, Snapshot and Recording View only)

Delete Image allows you to delete a single screen capture image from the Snapshot and Recording View. This menu option is only available when you have an optional-purchase MMC/SD card installed and you are in Snapshot and Recording View and you have selected an image thumbnail.

To delete an image:

1. On the Screen Snapshot View, use the UP and DOWN 4-Way Cursor keys to select the image you want to delete.
2. Highlight Delete Image on the Snapshot and Recording X-Press™ menu.
3. Press the RIGHT 4-Way Cursor key to initiate this procedure.
4. A Confirm Dialog box will appear. Select Yes to delete the image or No to cancel the operation.



Delete All Images

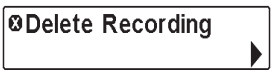
(optional-purchase MMC/SD Card, Snapshot and Recording View only)

Delete All Images allows you to delete all the images at once from the Snapshot and Recording View. This menu option is only available when you have an optional-purchase MMC/SD card installed and you are in Snapshot and Recording View.

To delete all images:

1. From the Snapshot and Recording View, highlight Delete All Images on the Snapshot and Recording X-Press™ Menu.
2. A confirmation dialog box will ask if you want to delete all images. Select Yes to delete, or No to change your mind.

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Delete Recording

(optional-purchase MMC/SD Card, Snapshot and Recording View only)

Delete Recording allows you to delete a single sonar recording from the Snapshot and Recording View. This menu option is only available when you have an optional-purchase MMC/SD card installed, you are in Snapshot and Recording View.

To delete a recording:

1. On the Snapshot and Recording View, use the UP and DOWN 4-Way Cursor keys to highlight the recording you want to delete.
2. Highlight Delete Recording on the Snapshot and Recording X-Press™ menu.
3. Press the RIGHT 4-Way Cursor key to initiate this procedure.
4. A Confirm Dialog box will appear. Select Yes to delete the recording or No to cancel the operation.



Delete All Recordings

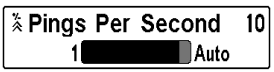
(optional-purchase MMC/SD Card, Snapshot and Recording View only)

Delete All Recordings allows you to delete all the recordings at once from the Snapshot and Recording View. This menu option is only available when you have an optional-purchase MMC/SD card installed and you are in Snapshot and Recording view.

To delete all recordings:

1. From the Snapshot and Recording View, highlight Delete All Recordings on the Snapshot and Recording X-Press™ Menu.
2. A confirmation dialog box will ask if you want to delete all recordings. Select Yes to delete, or No to change your mind.

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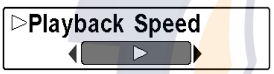
Pings Per Second

(optional-purchase MMC/SD Card, Snapshot and Recording View only)

Pings Per Second allows you to specify the maximum ping rate for the sonar recording currently in progress from the Snapshot and Recording View. This menu option is only available when you have an optional-purchase MMC/SD card installed and you are in Snapshot and Recording View and are actively recording (not playing back).

To specify the pings per second:

1. Highlight Pings Per Second on the Snapshot and Recording X-Press™ menu, and press the RIGHT 4-Way Cursor key to increase and decrease the number in the menu bar. (1-AUTO, Default = AUTO)



Playback Speed

(optional-purchase MMC/SD Card, Snapshot and Recording View only)

Playback Speed allows you to specify the playback speed for a sonar recording from the Snapshot and Recording View. This menu option is only available when you have an optional-purchase MMC/SD card installed and you are playing back a recording.

To specify playback speed:

1. Highlight Playback Speed on the Snapshot and Recording X-Press™ menu, and press the LEFT or RIGHT 4-Way Cursor key to display the following Playback Speed submenu choices (which are represented by icons): Beginning, Rewind2, Rewind, Reverse Normal, Reverse Slow, Pause, Slow Play, Normal Play, FF, FF2, End.

NOTE: *You can also change playback speed in the Snapshot and Recording View using the Left and Right 4-Way Cursor keys, although you cannot skip to the beginning or end of a recording using these keys.*

NOTE: *Sonar chart speed is increased during Fast Forward and reversed during Rewind. This may result in a reduced quality sonar image, since at higher speeds, not every sonar return can be processed.*

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Stop Playback

(optional-purchase MMC/SD Card only)

Stop Playback allows you to stop playback of a sonar recording from any view. This menu option is only available when you have an optional-purchase MMC/SD card installed and you are playing back a recording.

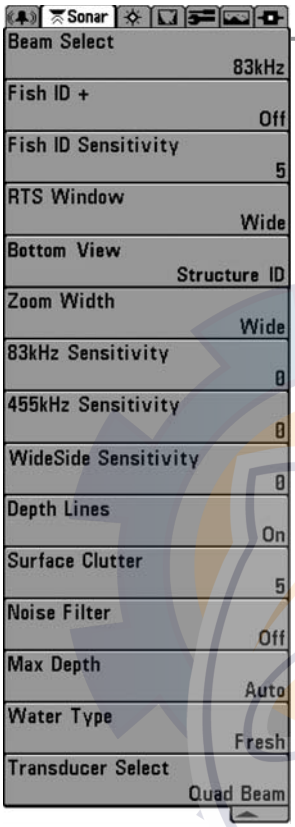
To stop playback of a recording:

1. Highlight Stop Playback on any X-Press™ menu.
2. Press the RIGHT 4-Way Cursor key to initiate this procedure.

To start playback, use the 4-Way Cursor keys to highlight a recording icon, then press the RIGHT 4-Way Cursor key to start playback (represented by a green "play" triangle which appears to the right of the recording icon).

NOTE: *During playback, the amount of time/memory left to play is indicated by the status bar. For more information, see* ***Snapshot and Recording View****.*

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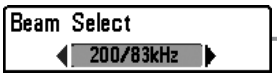
Sonar Menu

Sonar Menu Tab

Press the MENU key twice to access the Main Menu System and then press the RIGHT Cursor key to select the Sonar tab.

NOTE: *Menu choices will vary depending on system settings such as whether the unit is set for Advanced User mode or what transducer is currently selected.*

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Beam Select

Beam Select sets which sonar returns from the transducer will be displayed on the screen.

When set to **200/83 kHz**, the returns from both beams are blended by starting with the 83 kHz wide beam return, dimming it, and then overlaying it with the 200 kHz narrow beam return. The darker 200 kHz narrow beam sonar returns will stand out from the paler 83 kHz wide beam sonar returns. The Split Sonar View continues to display the sonar returns from each beam in their respective windows. The blended information is shown in the Sonar View, Sonar Zoom View and the Big Digits View. The RTS® Window in the Sonar View and the Circular Flasher View will only show the returns from the 200 kHz narrow beam.

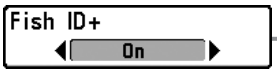
When set to **200 kHz**, only the returns from the 200 kHz narrow beam will be displayed in the Sonar View, the Sonar Zoom View, the Big Digits View and the Circular Flasher View. The Split Sonar View will continue to display returns from both beams in their respective windows. The RTS® Window in the Sonar View will display the returns from the 200 kHz narrow beam.

When set to **83 kHz**, the returns from the 83 kHz wide beam will be displayed in the Sonar View, the Sonar Zoom View, the Big Digits View and the Circular Flasher View. The Split Sonar View will continue to display returns from both beams in their respective windows. The RTS® Window will display the returns from the 83 kHz wide beam.

To use Beam Select:

1. Highlight Beam Select on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to select either the 200 kHz beam, the 83 kHz beam or the 200/83 kHz beams. (200/83 kHz, 200 kHz, 83 kHz, Default = 200 kHz)

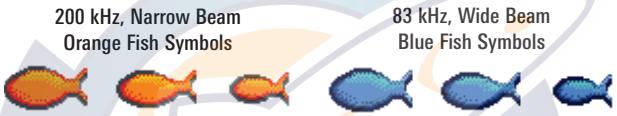
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Fish ID+™

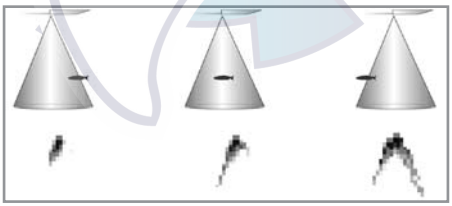
Fish ID+™ uses advanced signal processing to interpret sonar returns, and will display a Fish Symbol when very selective requirements are met. When a fish is detected, a fish icon and its depth are displayed above the return that has been classified as being a fish. Three different fish size icons represent the intensity of the sonar return, and provide an indicator of relative fish size.

DualBeam PLUS™ sonar models represent targets detected in the 200 kHz narrow beam as Orange Fish Symbols, and represent targets detected in the 83 kHz wide beam as Blue Fish Symbols.



When Fish ID+™ is turned off, the Fishing System shows only the raw sonar returns on the display. These returns will often result in "arches" forming on the display, indicating potential targets. Due to the transducer beam angle, the distance to a fish decreases as the fish moves into the beam, and then increases as it moves out again, creating a Fish Arch when this distance change is shown on the display. Boat speed, chart speed, and the position of the fish within the sonar beam greatly affect the shape of the arch.

Transducer Cone and Fish Arches



To turn Fish ID+ on or off:

1. Highlight Fish ID+ on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to turn the Fish ID+™ setting On or Off. (Off, On, Default = Off)

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Fish ID Sensitivity

Fish ID Sensitivity adjusts the threshold of the Fish ID+™ detection algorithms. Selecting a higher setting allows weaker returns to be displayed as fish. This is useful for identifying smaller fish species or baitfish. Selecting a lower setting displays fewer fish from weak sonar returns. This is helpful when seeking larger species of fish. Fish ID Sensitivity is used in conjunction with Fish ID+™. Fish ID+™ must be On for Fish ID Sensitivity to affect the ability of the Fishing System to identify sonar returns as fish.

To change the Fish ID Sensitivity setting:

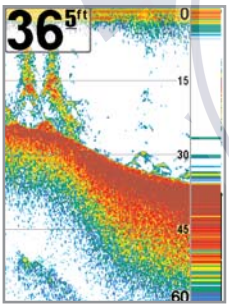
1. Highlight Fish ID Sensitivity on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Fish ID Sensitivity setting. (Low = 1, High = 10, Default = 5)



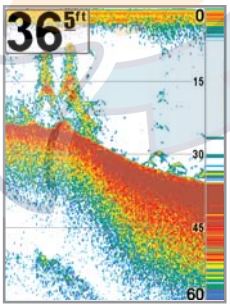
Real Time Sonar (RTS®) Window

RTS® Window sets the RTS® Window to either Wide or Narrow, or turns it off in the Sonar View. The RTS® Window always updates at the fastest rate possible and only displays returns that are within the transducer beam. (See *Real Time Sonar (RTS®) Window* for more information.)

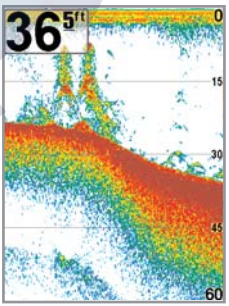
RTS® Window (Wide)



RTS® Window (Narrow)



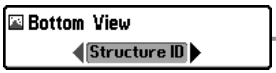
RTS® Window (Off)



To change the RTS® Window setting:

1. Highlight RTS Window on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the RTS® Window setting. (Wide, Narrow, Off, Default = Narrow)

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Bottom View

Bottom View selects the method used to represent bottom and structure on the display.

Structure ID® represents weak returns in blue and strong returns in red.

WhiteLine® highlights the strongest sonar returns in white resulting in a distinctive outline. This has the benefit of clearly defining the bottom on the display.

See ***Bottom Presentation*** for more information.

To adjust the Bottom View:

1. Highlight Bottom View on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Bottom View setting. (Structure ID®, WhiteLine®, Default = Structure ID®)



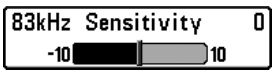
Zoom Width

Zoom Width adjusts the width of the Zoom window on the Sonar Zoom View.

To change the Zoom Width Setting:

1. Highlight Zoom Width on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Zoom Width setting. (Narrow, Medium, Wide, Default = Wide)

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83 kHz Sensitivity

(Advanced)

83 kHz Sensitivity changes the sensitivity of the 83 kHz beam. Increasing the 83 kHz Sensitivity will display additional weak returns and decreasing the 83 kHz Sensitivity will display fewer weak returns. The 83 kHz Sensitivity menu choice is only available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

NOTE: *83 kHz Sensitivity is particularly useful for adjusting the sensitivity of the 83 kHz sonar returns in the 200/83kHz Split Sonar View. The 83kHz sensitivity can be adjusted without affecting the sensitivity of the 200 kHz returns shown in the 200 kHz sonar window.*

To set the 83 kHz Sensitivity:

1. Make sure you are in Advanced User Mode, then highlight 83 kHz Sensitivity on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to set the 83 kHz Sensitivity. (-10 to +10, Default = 0)

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455 kHz Sensitivity

(Advanced: with QuadraBeam PLUS™ transducer)

455 kHz Sensitivity adjusts the sensitivity of the 455 kHz beam. Increasing the sensitivity will display additional weak returns and decreasing the sensitivity will display fewer weak returns. A QuadraBeam PLUS™ transducer must be attached to the Fishing System. The 455 kHz Sensitivity menu choice is available when Transducer Select is set to QuadraBeam (see ***Sonar Menu Tab: Transducer Select***) and User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

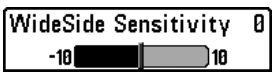
NOTE: *The 455 kHz Sensitivity requires the purchase of the QuadraBeam PLUS™ transducer. You can visit our website at* ***www.humminbird.com*** *to order this accessory online or contact our Customer Resource Center at* ***1-800-633-1468****.*

NOTE: *455 kHz Sensitivity is particularly useful for adjusting the sensitivity of the 455 kHz sonar returns in the Side Beam View. The 455 kHz sensitivity can be adjusted without affecting the sensitivity of the 200 kHz returns shown in the 200 kHz sonar window.*

<u>To change the 455 kHz Sensitivity setting:</u>

1. Make sure you have selected QuadraBeam Transducer and Advanced Mode and that the QuadraBeam PLUS™ transducer is connected, then highlight 455 kHz Sensitivity on the Sonar Main Menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the 455 kHz Sensitivity. (-10 to +10, Default = 0)

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WideSide® Sensitivity

(Advanced: with WideSide® transducer)

WideSide® Sensitivity adjusts the sensitivity of the WideSide® beam. Increasing the sensitivity will display additional weak returns and decreasing the sensitivity will display few weak returns. A WideSide® transducer must be attached to the Fishing System. The WideSide® Sensitivity menu choice is available when Transducer Select is set to WideSide® (see ***Sonar Menu Tab: Transducer Select***) and User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

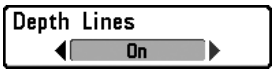
NOTE: *The WideSide® Sensitivity requires the purchase of the WideSide® transducer. You can visit our website at* ***www.humminbird.com*** *to order this accessory online or contact our Customer Resource Center at* ***1-800-633-1468****.*

NOTE: *WideSide® Sensitivity is particularly useful for adjusting the sensitivity of the 455 kHz sonar returns in the WideSide® View. The 455 kHz sensitivity can be adjusted without affecting the sensitivity of the other sonar frequencies.*

<u>To change the WideSide® Sensitivity setting:</u>

1. Make sure you have selected WideSide® Transducer and Advanced Mode and that the WideSide® transducer is connected, then highlight WideSide® Sensitivity on the Sonar Main Menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the WideSide® Sensitivity. (-10 to +10, Default = 0)

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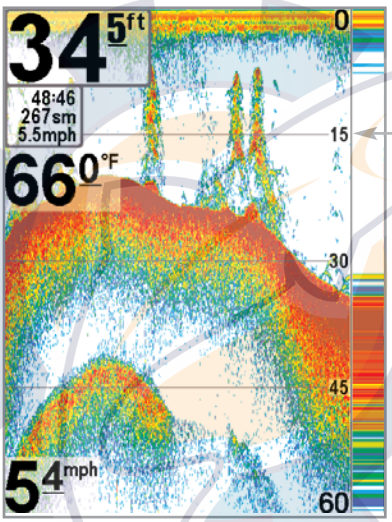


Depth Lines

(Advanced)

Depth Lines divide the display into four equal sections which are separated by three horizontal depth lines. The depth of each line is displayed along the depth scale. You can either turn Depth Lines On or Off. The Depth Lines menu choice is available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

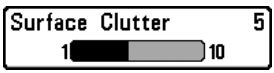
Depth Lines



To change the Depth Lines setting:

1. Make sure you are in Advanced User Mode, then highlight Depth Lines on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to turn the Depth Lines setting On or Off. (Off, On, Default = On)

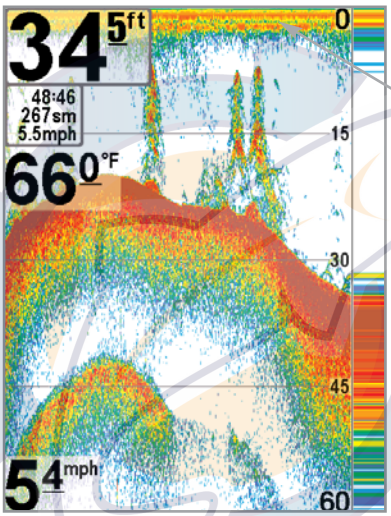
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Surface Clutter

(Advanced)

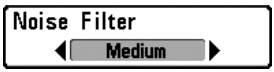
Surface Clutter adjusts the filter that removes surface clutter noise caused by algae and aeration. The lower the setting, the less surface clutter will be displayed. The Surface Clutter menu choice is available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).



To change the Surface Clutter setting:

1. Make sure you are in Advanced User Mode, then highlight Surface Clutter on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Surface Clutter setting. (Low = 1 to High = 10, Default = 5)

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Noise Filter

(Advanced)

Noise Filter adjusts the sonar Noise Filter to limit interference on the display from sources such as your boat engine, turbulence, or other sonar devices. The Noise Filter menu choice is available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

NOTE: *The Off setting removes all filtering; Low, Medium and High1, High2, High3 settings add progressive filtering of the sonar returns. High1, High2 and High3 are useful when there is excessive trolling motor noise, but in some deep water situations, the High settings may actually hinder your unit's ability to find the bottom.*

To change the Noise Filter setting:

1. Make sure you are in Advanced User Mode, then highlight Noise Filter on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Noise Filter setting. (Off, Low, Medium, High1, High2, High3, Default = Low)



Max Depth

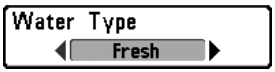
(Advanced)

Max Depth adjusts the maximum depth of operation. The performance of your Fishing System can be tuned to the maximum depth you will be fishing in by setting the Max Depth. When a maximum depth is set, your Fishing System will not attempt to acquire sonar data below that depth, thus increasing overall performance. When Max Depth is set to Auto, the Fishing System will acquire bottom readings as needed (within the capacity of the unit). If the bottom is deeper than the Max Depth setting, the digital depth readout will flash, indicating that the Fishing System cannot locate the bottom. The Max Depth menu choice is available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

To change the Max Depth setting:

1. Make sure you are in Advanced User Mode, then highlight Max Depth on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Max Depth setting. (AUTO, 10 to 1500 feet, 3 to 500 meters ***[International Models only]***, Default = AUTO)

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Water Type

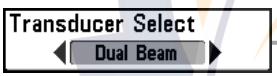
(Advanced)

Water Type configures your unit for operation in fresh or salt water. The Water Type menu choice is available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

NOTE: *In salt water, what would be considered a large fish might be 2 to 10 times bigger than a large fish in fresh water (depending on the type of fish you are seeking). The salt water setting allows for a greater range in fish size adjustment to account for this. Also, make sure that the Water Type is set accurately, especially in salt water, as this affects the accuracy of deep water depth readings.*

To change the Water Type setting:

1. Make sure you are in Advanced User Mode, then highlight Water Type on the Sonar main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Water Type setting. (Fresh, Salt, Default = Fresh)



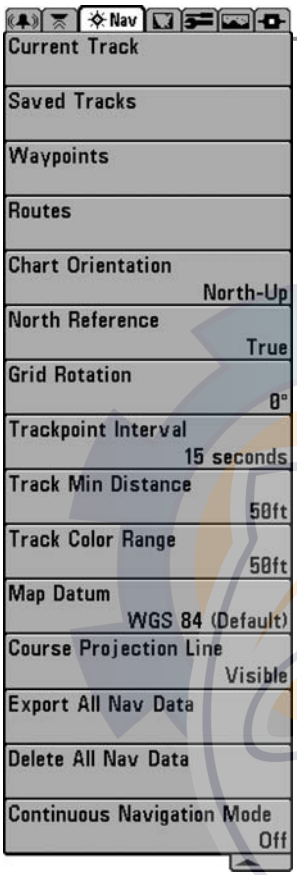
Transducer Select

Transducer Select allows you to select which transducer you want to use (the Fishing System comes with a DualBeam PLUS™ transducer, and also supports the optional-purchase QuadraBeam PLUS™ and WideSide® transducers.)

To change the selected Transducer:

1. Highlight Transducer Select on the Sonar Main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the transducer selected. (DualBeam, QuadBeam, WideSide, Universal Sonar 2, Default = DualBeam)

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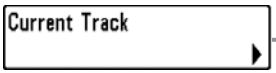
Navigation Menu Tab

Navigation Menu Tab

Press the MENU key twice to access the Main Menu System, then press the RIGHT cursor key to select the Navigation tab.

NOTE: *Menu choices will vary depending on system settings.*

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Current Track

Current Track allows you to view the Current Track submenu.

To view the Current Track Submenu:

1. Highlight Current Track on the Navigation main menu.
2. Use the RIGHT 4-WAY Cursor Control keys to view the Current Track submenu.



Current Track Submenu

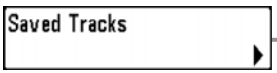
The Current Track Submenu contains the following menu choices:

Save Current Track allows you to save the current track.

Clear Current Track allows you to clear the current track.

Appearance allows you to change the style and color of the current track. (Breadcrumb Trail, Dashed Line, Solid Line or Wide Line, and if a line, the color of the line, or Color By Depth. If you choose Color By Depth, you cannot choose one color to represent the track; a color range will represent the different depths on the track instead, from light green (shallowest) to black (deepest). You can change the depth range associated with black by using Track Color Range menu setting (see ***Navigation Main Menu: Track Color Range***).

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Saved Tracks

Saved Tracks allows you to view the Saved Tracks submenu.

To view the Saved Tracks Submenu:

1. Highlight Saved Tracks on the Navigation main menu.
2. Use the RIGHT 4-WAY Cursor Control keys to view the Saved Tracks submenu.



Saved Tracks Submenu

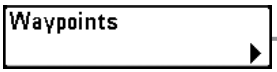
The Saved Tracks Submenu contains the following menu choices:

Edit allows you to select a previously-saved track and edit its name, whether it is visible or not, and its appearance.

Delete allows you to delete a track from a list of previously-saved tracks.

Default sets the appearance of the track created by selecting Save Current Track.

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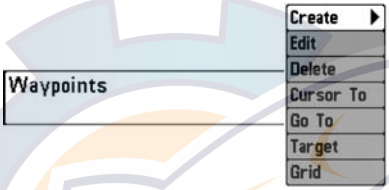


Waypoints

Waypoints allows you to view the Waypoints submenu.

To view the Waypoints Submenu:

1. Highlight Waypoints on the Navigation main menu.
2. Use the RIGHT 4-WAY Cursor Control keys to view the Waypoints submenu.



Waypoints Submenu

The Waypoints Submenu contains the following menu choices:

Create allows you to create a new waypoint and edit it immediately. The current boat position will be used as the default, but you can set the coordinates to any valid position. The Icon used to represent the waypoint in the Chart and Combo Views can also be changed.

Edit allows you to choose from a list of previously-saved waypoints, then edit the Name, Position (Latitude and Longitude) and select the Icon that will be used to represent the waypoint in the Chart and Combo Views.

Delete allows you to delete a waypoint from the list of saved waypoints.

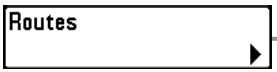
Cursor To allows you to move the cursor quickly to a waypoint selected from the list of saved waypoints.

Go To allows you to select a waypoint and start navigation toward that waypoint, or add that waypoint to the end of the current route.

Target allows you to apply a target to a waypoint selected from the list of waypoints.

Grid allows you to apply a trolling grid to a waypoint selected from the list of waypoints.

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Routes

Routes allows you to view the Routes submenu.

To view the Routes Submenu:

1. Highlight Routes on the Navigation main menu.
2. Use the RIGHT 4-WAY Cursor Control keys to view the Routes submenu.



Routes Submenu

The Routes Submenu contains the following menu choices:

Create allows you to create a new, empty route and add waypoints to it immediately.

Edit allows you to select a previously-saved route and edit its name and the waypoints on it.

Delete allows you to delete a route from a list of previously-saved routes.

Travel allows you to select a previously-saved route to use as the current route; this menu setting also begins navigation on this route. Routes can be traveled in either the forward or reverse direction.

Info displays information about the route, including the distance and bearing from each waypoint to the next.

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Chart Orientation

Chart Orientation allows you to select whether the Chart and Combo Views should be drawn North-Up or Course-Up.

To change the Chart Orientation setting:

1. Highlight Chart Orientation on the Navigation main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Chart Orientation setting. (North-Up, Course-Up, Default = North-Up)

NOTE: *The Chart Orientation setting does not apply to the Bird's Eye View.*

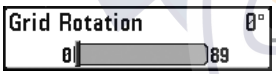


North Reference

North Reference allows you to have bearings displayed with one of two orientations: True North or Magnetic North.

To change the North Reference setting:

1. Highlight North Reference on the Navigation main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the North Reference setting. (True, Magnetic, Default = True)



Grid Rotation

Grid Rotation allows you to set the orientation of the trolling grid in degrees, where a setting of 0° displays a standard North, South, East, West alignment. See ***Waypoints*** for information on how to set a Grid.

To change the Grid Rotation setting:

1. Highlight Grid Rotation on the Navigation main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Grid Rotation setting. (0° to 89°, Default = 0°)

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Trackpoint Interval

Trackpoint Interval allows you to select the time period between trackpoints. The current track can only contain up to 2000 trackpoints, so longer time periods cause the track to extend back further in time, but will be less detailed.

NOTE: *Trackpoint Interval works in conjunction with Track Min Distance. Both conditions must be met before a trackpoint is added to the current track.*

To change the Trackpoint Interval setting:

1. Highlight Trackpoint Interval on the Navigation main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Trackpoint Interval setting. (1 second, 5 seconds, 10 seconds, 15 seconds, 30 seconds or 60 seconds, Default = 1 second)

NOTE: *During slow travel or drift, setting both Trackpoint Interval and Track Min Distance to small values will allow you to increase the track resolution.*



Track Min Distance

(Advanced)

Track Min Distance allows you to set a minimum distance of travel before a trackpoint is added to the track. The Track Min Distance menu choice is only available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

NOTE: *Track Min Distance works in conjunction with Trackpoint Interval. Both conditions must be met before a trackpoint is added to the current track.*

To change the Track Minimum Distance setting:

1. Make sure you are in Advanced User Mode, then highlight Track Min Distance on the Navigation main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Track Min Distance setting. (1 to 300 feet or 1 to 100 meters ***[International Units only]***, Default = 16 ft, 5 m)

NOTE: *During slow travel or drift, setting both Trackpoint Interval and Track Min Distance to small values will allow you to increase the track resolution.*

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Track Color Range

Track Color Range allows you to set the depth range that will be displayed as black, the deepest depth, when Color By Depth is selected as the style for the current track (see ***Navigation Menu Tab: Current Track***).

To change the Track Color Range:

1. Highlight Track Color Range on the Navigation main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Track Color Range setting. (50 to 3000 feet or 20 to 1000 meters *[International Units only]*, Default = 66 ft, 20 m)



Map Datum

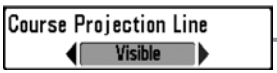
(Advanced)

Map Datum allows you to change the map coordinate system used by the Fishing System to match those of a paper map. The Map Datum menu choice is only available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

To change the Map Datum setting:

1. Make sure you are in Advanced User Mode, then highlight Map Datum on the Navigation main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Map Datum setting. (Default = WGS 84)

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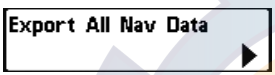


Course Projection Line

Course Projection Line allows you to display or hide an arrow extending from the bow of the boat that projects your current course, and shows where the boat will go if you continue on your present course.

To change the Course Project Line setting:

1. Highlight Course Projection Line on the Navigation main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Course Projection Line setting (Hidden, Visible, Default = Hidden)



Export All Nav Data

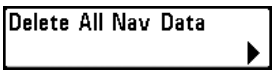
(Advanced)

Export All Nav Data allows you to export all saved Tracks, Waypoints and Routes to an MMC/SD card. The Export All Nav Data menu choice is only available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

To Export All Navigation Data:

1. Make sure you are in Advanced User Mode, and that an optional-purchase MMC/SD card is installed in the slot, then highlight Export All Nav Data on the Navigation main menu.
2. Use the RIGHT 4-WAY Cursor Control key to export all navigation data. A confirmation dialog box will appear to allow you to change your mind, and to confirm your choice. If no MMC card is installed, and error message will be displayed. Insert the MMC card and try again.

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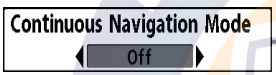
Delete All Nav Data

(Advanced)

Delete All Nav Data allows you to delete all saved Tracks, Waypoints and Routes. This menu choice should be used with caution. The Delete All Nav Data menu choice is only available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

To Delete All Navigation Data:

1. Make sure you are in Advanced User Mode, then highlight Delete All Nav Data on the Navigation main menu.
2. Use the RIGHT 4-WAY Cursor Control key to delete all navigation data.



Continuous Navigation Mode

Continuous Navigation Mode allows you to continue to navigate and fish around a particular waypoint, even if you pass over it multiple times.

To activate or de-activate Continuous Navigation::

1. Highlight Continuous Navigation Mode on the Navigation main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to turn Continuous Navigation Mode On or Off (Off, On, Default = Off)

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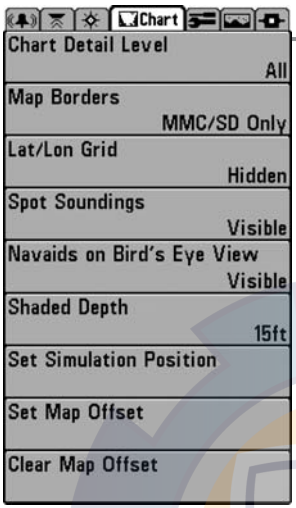


Chart Menu

Chart Menu Tab

Press the MENU key twice to access the Main Menu System and then press the RIGHT Cursor key to select the Chart tab.

NOTE: *Menu choices will vary depending on system settings such as whether the unit is set for Advanced User mode.*

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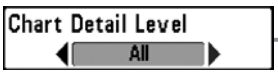


Chart Detail Level

Chart Detail Level allows you to select how much chart detail you want displayed on the Navigation Views. **Basic** shows land areas, ports, obstructions and restricted areas. **Navigation** shows navaids, landmarks, ferryways and navigation routes in addition to the Basic information. **Underwater** shows depth contours, fishing areas, underwater wrecks, tides and currents in addition to the Basic and Navigation information. **All** shows roads, buildings, railways, and other notations in addition to the Basic, Navigation and Underwater information.

To change the Chart Detail Level setting:

1. Highlight Chart Detail Level on the Chart main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Chart Detail Level setting. (Basic, Navigation, Underwater, All, Default = All)

NOTE: *Some chart details are only available with optional-purchase MMC/SD cards.*

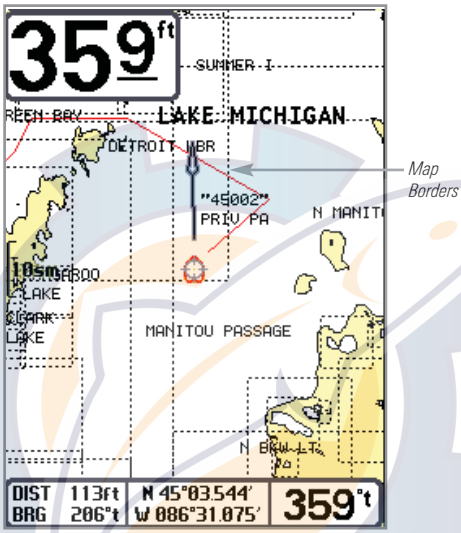
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Map Borders
Hidden

Map Borders

Map Borders allows you to display or hide map borders. A Map Border indicates an area which contains a different map.

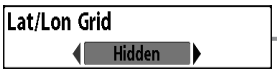
Map Borders



To change the Map Borders setting:

1. Highlight Map Borders on the Chart main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Map Borders setting. (Hidden, MMC/SD Only, All Visible, Default = MMC/SD Only)

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Lat/Lon Grid

Lat/Lon Grid allows you to display or hide a grid showing latitude and longitude lines.

To change the Lat/Lon Grid setting:

1. Highlight Lat/Lon Grid on the Chart main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Lat/Lon Grid setting. (Hidden, Visible, Default = Hidden)



Spot Soundings

Spot Soundings allows you to display or hide spot soundings, which are depth measurements shown on the chart.

NOTE: *Spot Soundings are only available with optional-purchase MMC/SD cards.*

To change the Spot Soundings setting:

1. Highlight Spot Soundings on the Chart main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Spot Soundings setting. (Hidden, Visible, Default = Hidden)



Navaids on Bird's Eye View

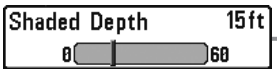
Navaids on Bird's Eye View allows you to display or hide additional navigational aids, such as lights and buoys, in Bird's Eye View.

NOTE: *You will see more navigational aids with and optional-purchase MMC/SD card.*

To change the Navaids on Bird's Eye View setting:

1. Highlight Navaids on Bird's Eye View on the Chart main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Navaids on Bird's Eye View setting. (Hidden, Visible, Default = Visible)

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Shaded Depth

Shaded Depth allows you to change the depth used for shading on the chart views.

To change the Shaded Depth setting:

1. Highlight Shaded Depth on the Navigation main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Shaded Depth setting. (Off, 1 to 60 Feet or 1 to 20 Meters *[International Units only]*, Default = 16 ft, 5 m)



Set Simulation Position

(Advanced)

Set Simulation Position allows you to set the position of the boat used in the Simulator. The Set Simulation Position menu choice is only available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

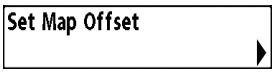
To set the Simulation Position:

1. Activate the cursor and move it to the coordinates from where you want the simulation to start.

NOTE: *The cursor must be active in order for this procedure to work.*

2. Make sure you are in Advanced User Mode, then highlight Set Simulation Position on the Chart main menu.
3. Use the RIGHT 4-WAY Cursor Control key to change the Simulation Position setting. A confirmation dialog box will appear to allow you to change your mind, or to confirm your choice. If the cursor was not active before you began this procedure, you will see an error message. Exit the menu, set the cursor, then try again.

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Set Map Offset

(Advanced)

Set Map Offset allows you to change the map offset used by your Fishing System. The Set Map Offset menu choice is only available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***).

NOTE: *The Map Offset will be applied to all maps and not just the map that requires the correction. The Map Offset should be cleared if a different map is to be used.*

To change the Map Offset setting:

1. Activate the cursor and move it to the location where the Map Offset will be applied.

NOTE: *The cursor must be active in order for this procedure to work.*

2. Make sure you are in Advanced User Mode, then highlight Set Map Offset on the Chart main menu.
3. Use the RIGHT 4-WAY Cursor Control key to set the Map Offset. A confirmation dialog box will appear to allow you to change your mind, or to confirm your choice. If the cursor was not active before you began this procedure, you will see an error message. Exit the menu, set the cursor, then try again.



Clear Map Offset

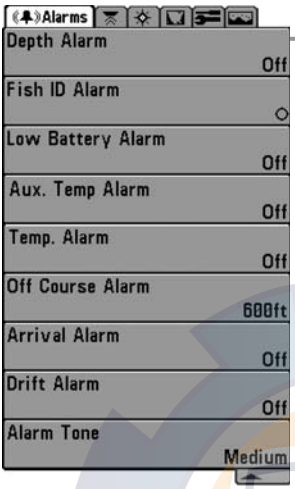
(Advanced)

Clear Map Offset allows you to clear the Map Offset. The Clear map Offset menu choice is only available when User Mode is set to Advanced (see ***Setup Menu Tab: User Mode***) and a Map Offset is currently active.

To Clear Map Offset:

1. Make sure you are in Advanced User Mode, then highlight Clear Map Offset on the Chart main menu.
2. Use the RIGHT 4-WAY Cursor Control key to clear the Map Offset.

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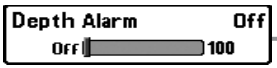
Alarms Menu

Alarms Menu Tab

From any view, press the MENU key twice to access the Main Menu System. The Alarms tab will be the default selection.

NOTE: *When an alarm is triggered, you can silence it by pressing any key. The alarm will be silenced, and will not be triggered again until a new instance of the alarm condition is detected.*

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Depth Alarm

Depth Alarm sounds when the depth becomes equal to or less than the menu setting.

To change the Depth Alarm setting:

1. Highlight Depth Alarm on the Alarms main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Depth Alarm setting. (OFF, 1 to 100 feet, or 0.5 to 30 meters *[International Models only]*, Default = OFF)



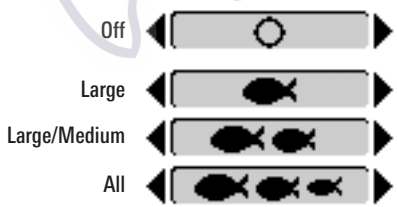
Fish ID Alarm

Fish ID Alarm sounds when the Fishing System detects fish that correspond to the alarm setting. Fish ID Alarm will only sound if Fish ID+™ is on.

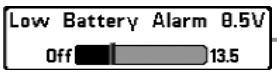
For example, if you've set the Fish ID Alarm to sound for Large fish only, the Fish ID alarm will sound when a large-sized fish is detected.

To change the Fish ID Alarm setting:

1. Highlight Fish ID Alarm on the Alarms main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Fish ID Alarm setting. (Off, All, Large/Medium, Large, Default = Off)



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Low Battery Alarm

Low Battery Alarm sounds when the input battery voltage is equal to or less than the menu setting. The battery alarm will only sound for the battery that is connected to the Fishing System. The Low Battery Alarm should be set to warn you when the battery voltage drops below the safety margin that you have determined. For instance, if you are running a trolling motor (battery operated), you would want to set the Low Battery Alarm to sound before the battery voltage drops too low for it to be used to start your main, gasoline-powered engine.

To change the Low Battery Alarm setting:

1. Highlight Low Battery Alarm on the Alarms main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Low Battery Alarm setting. (Off, 8.5V - 13.5V, Default = Off)



Aux Temp Alarm

(with optional-purchase temp. probe or Temp/Speed only)

Aux Temp Alarm sounds when the water temperature from the Padddlewheel/Temperature Probe detected by the Fishing System reaches the Aux Temp Alarm setting, which is either set in degrees Fahrenheit or Celsius [International Models only]. For example, if the Aux Temp Alarm is set to 58 degrees Fahrenheit, and the water temperature falls from 60 degrees to 58 degrees, the Aux Temp Alarm will sound. Similarly, if the water temperature rises from 56 degrees to 58 degrees, the Temp Alarm will also sound.

To change the Aux Temp Alarm setting:

1. Highlight Aux Temp Alarm on the Alarms main menu.
2. Use the LEFT or RIGHT 4-Way Cursor Control keys to change the Aux Temp Alarm setting. (Off, 33-120 [Fahrenheit], 0-50 [Celsius], Default = Off)

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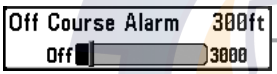


Temp Alarm

Temp Alarm sounds when the water temperature detected by the Fishing System reaches the Temp Alarm setting, which is either set in degrees Fahrenheit or Celsius *[International Models only]*. For example, if the Temp Alarm is set to 58 degrees Fahrenheit, and the water temperature falls from 60 degrees to 58 degrees, the Temp Alarm will sound. Similarly, if the water temperature rises from 56 degrees to 58 degrees, the Temp Alarm will also sound.

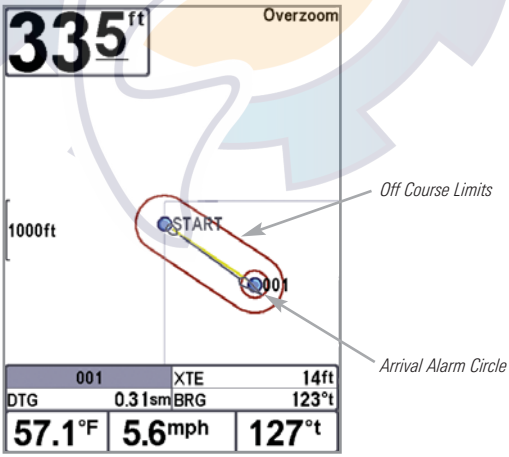
To change the Temp Alarm setting:

1. Highlight Temp Alarm on the Alarms main menu.
2. Use the LEFT or RIGHT 4-Way Cursor Control keys to change the Temp Alarm setting. (Off, 33-120 [Fahrenheit], 0-50 [Celsius], Default = Off)



Off Course Alarm

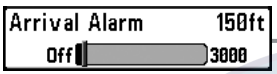
Off Course Alarm sounds when the boat has moved too far off course based on the menu setting when navigating. Off Course Alarm allows you to set how far the boat is allowed to move off course before the Off Course Alarm will sound.



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To change the Off Course Alarm setting:

1. Highlight Off Course Alarm on the Alarms main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Off Course Alarm setting. (Off, 25 to 3000 feet, 10 to 1000 meters *[International Models only]*, Default = 300 ft, 100 m)



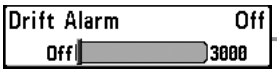
Arrival Alarm

Arrival Alarm sounds when the boat has either exceeded the distance to the destination waypoint, or has entered the Arrival Alarm Circle, based on the menu setting when navigating. Arrival Alarm allows you to set how close the boat must be to the destination waypoint before the Arrival Alarm will sound.

To change the Arrival Alarm setting:

1. Highlight Arrival Alarm on the Alarms main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Arrival Alarm setting. (Off, 25 to 3000 feet, 10 to 1000 meters *[International Models only]*, Default = 150 ft, 50 m)

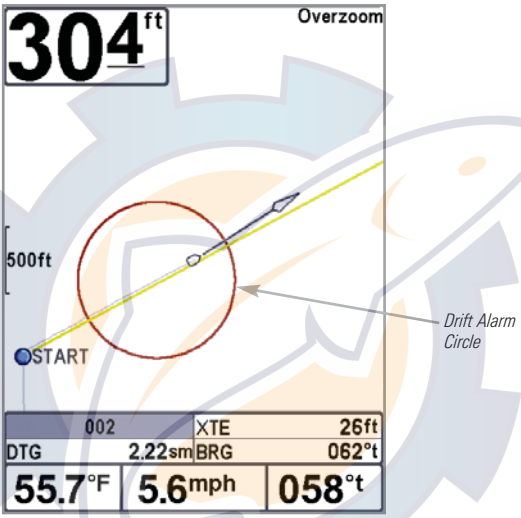
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Drift Alarm

Drift Alarm sounds when the boat has exceeded the distance from the boat's anchored position, based on the menu setting. Drift Alarm allows you to set the size of a perimeter around the boat's anchored position; if the anchored boat drifts outside of that perimeter, the Drift Alarm will sound.

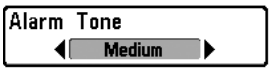
Drift Alarm Perimeter



To change the Drift Alarm setting:

1. Highlight Drift Alarm on the Alarms main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Drift Alarm setting. (Off, 25 to 3000 feet, 10 to 1000 meters ***[International Models only]***, Default = Off)

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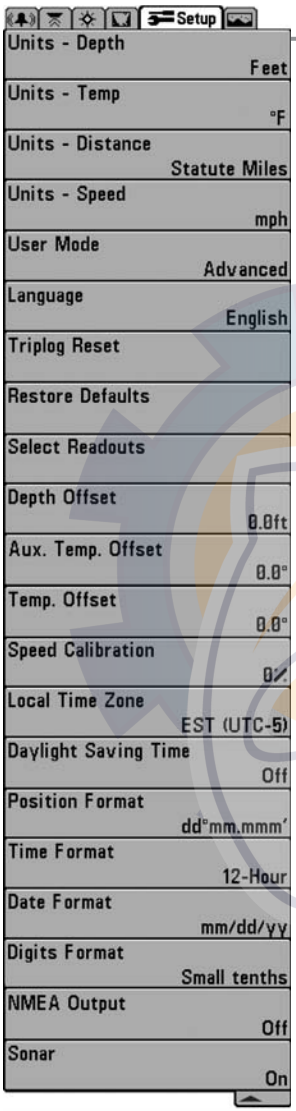
Alarm Tone

Alarm Tone selects the pitch of the alarm sound. A brief tone will be produced as you adjust the Alarm Tone so that you can select the tone that you can hear best.

To change the Alarm Tone setting:

1. Highlight Alarm Tone on the Alarms main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Alarm Tone setting. (High, Medium, Low, Default = Medium)

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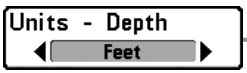
Setup Menu Tab

Setup Menu Tab

From any view, press the MENU key twice to access the tabbed Main Menu System, then press the RIGHT cursor key until the Setup tab is selected.

NOTE: *Menu choices will vary depending on system settings such as whether the unit is set for Advanced User mode and what accessories are attached to the unit.*

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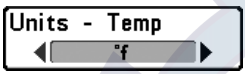


Units - Depth

Units - Depth selects the units of measure for all depth-related readouts.

To change the Units - Depth setting:

1. Highlight Units - Depth on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Units - Depth setting. (Meters *[International Models only]*, Feet, Fathoms; Default is Meters for International models, and Feet for Domestic models)



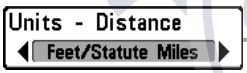
Units - Temp

(International only)

Units - Temp selects the units of measure for all temperature-related readouts. *International Models only*.

To change the Units - Temp setting:

1. Highlight Units - Temp on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Units - Temp setting. (Celsius, Fahrenheit; Default = Celsius)



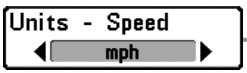
Units - Distance

Units - Distance selects the units of measure for all distance-related readouts, and will appear in the menu if a Temp/Speed Accessory is connected and the paddlewheel has moved at least once, or if the GPS Receiver is connected.

To change the Units - Distance setting:

1. Highlight Units - Distance on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Units - Distance setting. (Domestic Models: Statute Miles, Nautical Miles; Default = Statute Miles; International Models: Meters/Kilometers, Meters/Nautical Miles, Feet/Statute Miles, Feet/Nautical Miles; Default = Meters/Kilometers)

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Units - Speed

Units - Speed selects the units of measure for speed-related readouts, and will appear in the menu if a Temp/Speed Accessory is connected and the paddlewheel has moved at least once, or if the GPS Receiver is connected.

To change the Units - Speed setting:

1. Highlight Units - Speed on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Units - Speed setting. (kph *[International Models only]*, mph, kts, Default = kph for International models and mph for Domestic models)

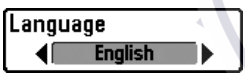


User Mode

User Mode sets the menu system to either Normal or Advanced. When set to Normal (default setting,) only the basic menu options are shown. When set to Advanced, additional menu choices are available.

To change the User Mode setting:

1. Highlight User Mode on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the User Mode setting. (Normal, Advanced, Default = Normal)



Language

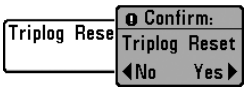
(International only)

Language selects the display language for menus. ***International Models only***.

To change the Language setting:

1. Highlight Language on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Language setting. (Default = English)

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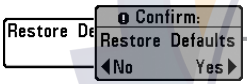
Triplog Reset

Triplog Reset resets the Triplog to zero, and will appear in the menu if a Temp/Speed Accessory is connected and the paddlewheel has moved at least once, or if the GPS Receiver is connected. The Triplog provides the following information: timer for elapsed time, distance traveled since last reset, and average speed.

__NOTE:__ See __Setup Menu Tab: Select Readouts (Advanced)__ to find out how to display Triplog information on the screen.

To Reset Triplog:

1. Highlight Reset Triplog on the Setup menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate Triplog Reset.
3. The Confirm dialog box will appear. To reset the Triplog, press the RIGHT Cursor key once more. To cancel Reset Triplog, press the LEFT Cursor key.



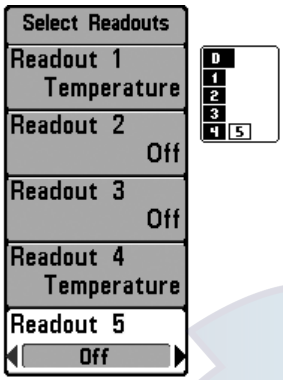
Restore Defaults

Restore Defaults resets ALL menu settings to their factory defaults. Use this menu choice with caution!

To Restore Defaults:

1. Highlight Restore Defaults on the Setup menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate restoring defaults.
3. The Confirm dialog box will appear. To reset the defaults, press the RIGHT Cursor key once more. To cancel Restore Defaults, press the LEFT Cursor key.

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Select Readouts

Select Readouts

(Advanced, Sonar view only)

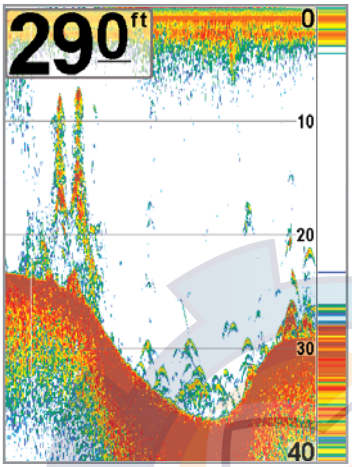
Select Readouts sets individual digital readouts on the Sonar View. This Advanced feature allows you to select what data will be displayed in each of 5 fixed-position data windows arranged around the left and bottom edges of the Sonar View screen, or whether a particular window will be turned off, displaying nothing in that area; you can access this menu choice only when in Advanced User Mode (see ***Setup Menu Tab: User Mode***.)

Data windows can display readouts from supported accessories such as Temp/Speed. Each data window can either be empty or contain one of the following:

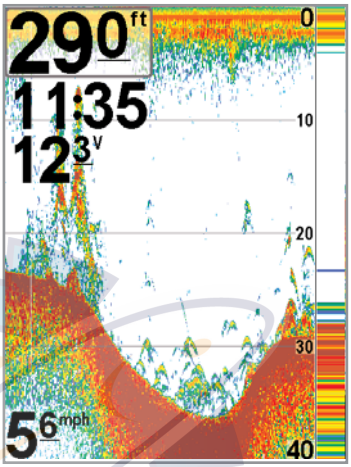
- Course
- Navigation
- Position
- Speed
- Temperature
- Time + Date
- Triplog
- Voltage
- Time
- Aux Temp.

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Default Sonar View



Customized Sonar View



To Select Readouts:

1. Make sure you are in Advanced User Mode, then highlight Select Readouts on the Setup main menu.
2. Use the RIGHT 4-WAY Cursor Control key to initiate this procedure.
3. The Select Readouts submenu will appear, showing a list of all Readouts. Use the UP or DOWN Cursor keys to select a particular Readout position, then use the RIGHT or LEFT Cursor keys to change what will be displayed at that position. (Course, Navigation, Position, Off, Speed, Temperature, Time+Date, Triplog, Voltage, Time, Aux Temp.)

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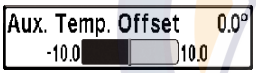
Depth Offset

(Advanced)

Depth Offset will adjust the digital depth readout to indicate depth from the waterline or boat's keel. Enter a positive vertical measurement from the transducer to the waterline to read the depth from the waterline. Enter a negative vertical measurement from the transducer to keel to read the depth from the keel. This menu choice is available only when in Advanced User Mode (see ***Setup Menu Tab: User Mode***.)

To change the Depth Offset setting:

1. Make sure you are in Advanced User Mode, then highlight Depth Offset on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Depth Offset setting. (-10.0 to +10.0 feet or -3 to 3 meters ***[International Models only]***, Default = 0)



Aux Temp Offset

(Advanced)

Aux Temp Offset will adjust the aux temperature readout (the temperature on the optional-purchase temperature probe or Temp/Speed accessory) by the amount entered. This menu choice is available only when in Advanced User Mode (see Setup Menu Tab: User Mode.)

To change the Aux Temp Offset setting:

1. Make sure you are in Advanced User Mode, then highlight Aux Temp Offset on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Aux Temp Offset setting. (-10.0 to +10.0 degrees, Default = 0)

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Temp Offset

(Advanced)

Temp Offset will adjust the temperature readout by the amount entered. This menu choice is available only when in Advanced User Mode (see ***Setup Menu Tab: User Mode***.)

To change the Temp Offset setting:

1. Make sure you are in Advanced User Mode, then highlight Temp Offset on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Temp Offset setting. (-10.0 to +10.0 degrees, Default = 0)



Speed Calibration

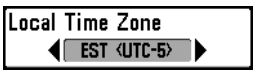
(Advanced, with Temp/Speed only)

Speed Calibration will adjust the speed readout by the percentage entered, and will appear in the menu if a Temp/Speed Accessory is connected and the paddlewheel has moved at least once, when the unit is in Advanced User Mode (see ***Setup Menu Tab: User Mode***.)

To change the Speed Calibration setting:

1. Make sure you are in Advanced User Mode, then highlight Speed Calibration on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Speed Calibration setting. (-20% to +20%, Default = 0%)

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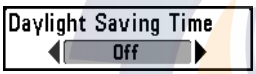
Local Time Zone

(Advanced)

Local Time Zone selects your time zone in reference to the time reported by the GPS receiver when Time+Date is selected as a Digital Readout on the Sonar View (see ***Select Readouts***). This menu choice is available only when in Advanced User Mode (see ***Setup Menu Tab: User Mode***).

To change the Local Time Zone:

1. Make sure you are in Advanced User Mode, then highlight Local Time Zone on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Local Time Zone (Default = EST [UTC-5] - Eastern Standard Time).



Daylight Saving Time

(Advanced)

Daylight Saving Time adjusts the time display to account for local Daylight Saving Time when Time+Date is selected as a Digital Readout on the Sonar View (see ***Select Readouts***). Selecting On adds one hour to the time display adjusted for your local time zone. Selecting Off leaves the time display as adjusted for your local time zone. This menu choice is available only when in Advanced User Mode (see ***Setup Menu Tab: User Mode***).

To change the Daylight Saving Time setting:

1. Make sure you are in Advanced User Mode, then highlight Daylight Saving Time on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to turn Daylight Saving Time On or Off. (Off, On, Default = Off)

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Position Format

(Advanced)

Position Format selects the format of the latitude and longitude position display. This menu choice is available only when in Advanced User Mode (see ***Setup Menu Tab: User Mode***).

To change the Position Format setting:

1. Make sure you are in Advanced User Mode, then highlight Position Format on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Position Format. (dd.ddddd°, dd°mm.mmm', or dd°mm'ss", Default = dd°mm.mmm')



Time Format

(Advanced, International only)

Time Format changes the time format used by the unit This menu choice is available only when in Advanced User Mode (see ***Setup Menu Tab: User Mode***). ***International Models only***. Time Format selects a 12 hour or 24 hour format for the time of day displayed when Time + Date is selected as a Digital Readout on the Sonar View (see ***Select Readouts***).

To change the Time Format:

1. Make sure you are in Advanced User Mode, then highlight Time Format on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Time Format. (12 hour, 24 hour, Default = 12 hour)

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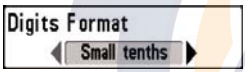
Date Format

(Advanced, International only)

Date Format changes the date format used by the unit This menu choice is available only when in Advanced User Mode (see Setup Menu Tab: User Mode). International Models only. Date Format selects the format for the date display when Time + Date is selected as a Digital Readout on the Sonar View. (see Select Readouts).

To change the Date Format:

1. Make sure you are in Advanced User Mode, then highlight Date Format on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Date Format. (mm/dd/yy, dd.mm.yy or yy.mm.dd, Default = mm/dd/yy)



Digits Format

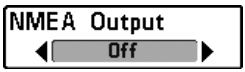
(Advanced)

Digits Format allows you to add a tenth decimal place to readouts such as Temperature and Depth. The format can be changed to small format, large format or no format. This menu choice is available only when in Advanced User Mode (see ***Setup Menu Tab: User Mode***.)

To change the Digits Format setting:

1. Make sure you are in Advanced User Mode, then highlight Digits Format on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Digits Format setting. (Small tenths, Large tenths, No tenths, Default = Small tenths)

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NMEA Output

(Advanced)

NMEA Output turns the NMEA* output on or off. This menu choice is available only when in Advanced User Mode (see ***Setup Menu Tab: User Mode***.) NMEA Output should be turned On if you connect the NMEA Output wires of the GPS Receiver cable to another NMEA-compatible device, such as an autopilot.

**NMEA 0183 is a National Marine Electronics Association standard for data communication.*

The following NMEA sentences are output when NMEA Output is turned On:

DPT- Depth
MTW - Water Temperature
GLL - Lat/Lon Position
GGA - GPS Fix Data
RMC - Recommended Minimum Specific GNSS Data
VTG - Course Over Ground and Ground Speed
ZDA - Time and Date

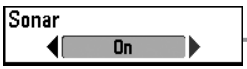
When navigating, the following NMEA sentences are also output when NMEA Output is turned On:

APB - Autopilot Sentence B
BWR - Bearing and Distance to Waypoint
RMB - Recommended Minimum Navigation Info

To turn NMEA Output on or off:

1. Make sure you are in Advanced User Mode, then highlight NMEA Output on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the NMEA Output to On or Off (Off, On, Default = Off).

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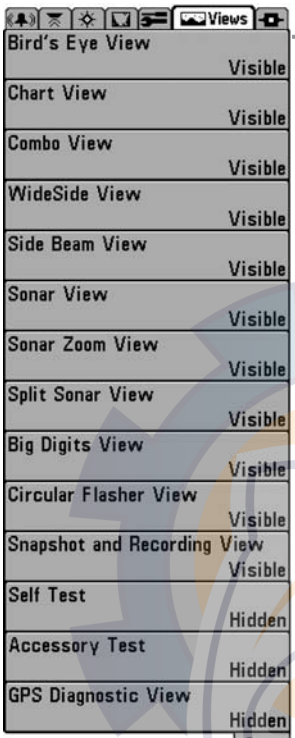
Sonar

Sonar deactivates Sonar and removes the Sonar Views from the view rotation.

To turn Sonar on or off:

1. Highlight Sonar on the Setup menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the Sonar to On or Off (Off, On, Default = On).

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Views Menu

Views Menu Tab

From any view, press the MENU key twice to access the tabbed Main Menu System, then press the RIGHT 4-WAY Cursor Control key until the Views tab is selected. This menu tab allows you to set the available views to either hidden or visible in the view rotation. The view will be removed from the view rotation if it is set to Hidden and will be displayed in the view rotation if it is set to Visible. The following views are available:

- Bird's Eye View
- Chart View
- Combo View
- WideSide® View *(with optional-purchase WideSide® transducer)*
- Side Beam View *(with optional-purchase QuadraBeam PLUS™ transducer)*
- Sonar View
- Sonar Zoom View
- 200/83 kHz Split Sonar View
- Big Digits View
- Circular Flasher View
- Snapshot and Recording View
- Self Test
- Accessory Test
- GPS Diagnostic View.

<u>To Change the View Status of Any View:</u>

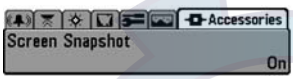
1. Highlight the View main menu tab.
2. Use the UP or DOWN 4-WAY Cursor Control keys to select a View.
3. Use the LEFT or RIGHT 4-WAY Cursor Control keys to change the status of the view from Hidden to Visible.

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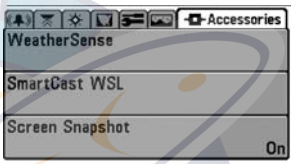
Accessories Menu Tab

From any view, press the MENU key twice to access the tabbed Main Menu System, then press the RIGHT cursor key until the Accessories tab is selected.

If no accessories are attached to the Accessory Bus, no accessory menu choices will appear under the Accessories tab, only the Screen Snapshot menu choice. If an accessory is attached, however, additional menu choices that support the accessory will be added automatically. See the Operations Manual that comes with your accessory for detailed information.



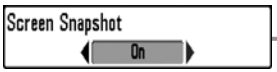
Accessories Menu Tab
(no accessories attached)



Accessories Menu Tab
(with accessories attached)

NOTE: *Accessories to enable WeatherSense® and the SmartCast® Wireless Sonar Link require separate purchases. You can visit our website at* ***www.humminbird.com*** *or contact our Customer Resource Center at* ***1-800-633-1468*** *for additional details.*

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Using Screen Snapshot

Screen Snapshot activates the screen snapshot function. When Screen Snapshot is enabled, pressing the MARK key creates a saved screen capture on the optional-purchase MMC/SD card installed in your unit's card slot. All menus, dialog boxes, warnings and messages are captured and saved automatically.

Once you have created a screen capture, a screen capture thumbnail is added to the Snapshot and Recording View, and is available to view at a later date. See the full-sized image by highlighting a thumbnail (using the Up or Down 4-Way Cursor keys), then using the Right 4-Way Cursor key to view the full image. A border around the full-size screen snapshot indicates that it is just a screen snapshot, not a "live" view. You can delete the highlighted image, or all images, by selecting a thumbnail and using Delete Image, or using Delete All Images from the Snapshot and Recording X-Press™ menu. You can view these captures on the Snapshot and Recording View, which shows any existing thumbnails of the screen captures, along with any icons representing sonar recordings.

NOTE: *You must have an optional-purchase MMC/SD card installed for the Screen Snapshot feature to work.*

NOTE: *If you use your MMC/SD card in two different Fishfinder units that have different screen sizes, the recordings made on one unit will still be present on the card, but will be represented by the Unavailable icon (circle with a slanted line through it) on the Snapshot and Recording View on the other unit.*

To turn Screen Snapshot on or off:

1. Highlight Screen Snapshot on the Accessories main menu.
2. Use the LEFT or RIGHT 4-WAY Cursor Control keys to turn Screen Snapshot On or Off (Off, On, Default = Off).

To make a screen snapshot (Screen Snapshot must be enabled):

1. Make sure you have installed an optional-purchase MMC/SD card into your card slot.
2. From any view you want to capture, press the MARK key. When you start a screen capture, you will see a message that a waypoint has been created at the point where your cursor is on the screen, and the screen will freeze while the snapshot is being saved to the MMC/SD

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card. A status dialog box will appear that shows the progress of the save as a percentage, and that displays the numbered file name assigned to the .BMP file that is being created.

NOTE: *For more information, see* ***Snapshot and Recording View and Snapshot and Recording X-Press™ Menu****.*

NOTE: *Navigation is not affected by the Screen Snapshot feature. Also, if Screen Snapshot is enabled but there is no GPS receiver connected, pressing the MARK key will capture the screen image and display an error saying that a GPS position fix is required to create a waypoint.*

NOTE: *The speed of the capture depends on the type of card you use; in general, SD cards capture the screen faster than MMC cards do.*

To view screen snapshots:

1. Make sure that the optional-purchase MMC/SD card used to capture the screen is installed in your card slot.
2. Press the VIEW key until you see the Snapshot and Recording View.
3. You can scroll through the whole list of captures in this view using the 4-WAY Cursor keys. Highlight a thumbnail (using the Up or Down 4-Way Cursor keys), then use the Right 4-Way Cursor key to view the full image. A border around the full-size screen capture indicates that it is just a screen capture, not a "live" view. You can delete the highlighted image, or all captured images, using the Snapshot and Recording X-Press™ menu. (See ***Snapshot and Recording X-Press™ menu: Delete Image and Delete All Images*** for more information).

NOTE: *When you highlight a snapshot thumbnail, the amount of room remaining on the SD card will be displayed.*

NOTE: *The waypoints that are created by a snapshot have the same name as the file and use a custom waypoint icon. Snapshot filenames begin with the letter "S".*

NOTE: *You may view data files associated with each screen snapshot by removing the MMC/SD card from your unit and installing it in your optional-purchase MMC/SD card reader connected to a PC. Use Windows Explorer to see the contents of your MMC/SD card; you will notice that a .DAT (may show up as .TXT) file is created for every .BMP screen capture; this data file includes the thumbnail view, and is required in order to be able to view the screen snapshot from your unit, so don't delete these files.*

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Troubleshooting

Before contacting the Humminbird® Customer Resource Center, please read the following section. Taking the time to review these troubleshooting guidelines may allow you to solve a performance problem yourself, and therefore avoid sending your unit back for repair.

Fishing System Doesn't Power Up

If your Fishing System doesn't power up, use the Installation Guide that also comes with it for specific confirmation details, making sure that:

- The power cable is properly connected to the Fishing System control head.
- The power cable is wired correctly, with red to positive battery terminal and black to negative terminal or ground.
- The fuse is operational.
- The battery voltage of the power connector is at least 10 Volts.

Correct any known problems, including removing corrosion from the battery terminals or wiring, or actually replacing the battery if necessary.

Fishing System Defaults to Simulator with a Transducer Attached

A connected and functioning transducer will cause the newly-started Fishing System to go into Normal operating mode automatically. If, when you power up the Fishing System, it goes into Simulator mode automatically, even though a transducer is already connected, this means that the control head is not detecting the transducer. Perform the following troubleshooting tasks:

- Using the Installation Guide that also comes with your Fishing System, check to make sure that the transducer cable is securely connected to the Fishing System. Reconnect if necessary, and power up the Fishing System again to see if this fixes the problem.
- Replace the non-functioning transducer with a known good transducer if available and power up the control head again.
- Check the transducer cable. Replace the transducer if the cable is damaged or corroded.

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Display Problems

There are several main conditions or sources of possible interference that may cause problems with the quality of the information displayed on the control head. Look in the following table for some symptoms of display problems and possible solutions:

Problem	Possible Cause
The control head loses power at high speeds.	If the power output of your boat's engine is unregulated, the control head may be protecting itself using its over-voltage protection feature. Make sure the input voltage does not exceed 20 Volts.
When the boat moves at higher speeds, the bottom disappears or suddenly weakens, or the display contains gaps.	The transducer position may need to be adjusted. A mix of air and water flowing around the transducer (cavitation) may be interfering with the interpretation of sonar data. See your Installation Guide for suggestions on adjusting the transducer position. Electrical noise from the boat's engine may be interfering with sonar reception. See ***Finding the Cause of Noise*** for more information.
There are no fish detected, even when you know they are in the water under the boat, or sonar readings seem weak or faulty.	Sonar readings may be affected if the transducer is not positioned correctly (i.e. mounted at an angle, not straight down), or there is some kind of mechanical interference, either because it is mounted inside a hull that is too thick for proper sonar transmission, the bond between the transducer and the hull is not airtight, or because the transducer is dirty. Check with your Installation Guide for guidance on re-positioning the transducer, and make sure the transducer is clean. Low battery voltage may be affecting the power of signal transmission. Electrical noise from the boat's engine may be interfering with sonar reception. See ***Finding the Cause of Noise*** for more information.

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Finding the Cause of Noise

Electrical noise usually affects the display with many black dots at high speeds, and high sensitivity readings. One or more of the following sources can cause noise or interference:

Possible Source of Noise	Isolation
Other electronic devices	Turn off any nearby electronic devices to see if the problem goes away, then turn them on one at a time to see if the noise re-appears.
The boat's engine	To determine whether the boat's engine is the source of the noise, increase the RPMs while the boat is in neutral and stationary to see if the noise increases proportionately; if noise appears when you rev the engine, the problem could be the spark plugs, alternator, or tachometer wiring. Replace the spark plugs with resistor plugs, install an alternator filter, or route the control head power and transducer cables away from the engine wiring.
Cavitation from the boat's propeller	Turbulence created by the propeller can cause noise; make sure the transducer is mounted at least 15" (38 cm) from the propeller, and that the water flows smoothly over the face of the transducer at all times.

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700 Series™ Fishing System Accessories

Accessories customize the 700 Series™ Fishing System to your needs and enable you to stay on the edge of new technology. When an accessory is connected to the 700 Series™ Fishing System, additional menus and readouts are added automatically to the Main Menu System. Accessories available today that are supported by your Fishing System include:

WideSide® transducer: purchase and connect the WideSide® transducer to your 700 Series™ Fishing System to access specialized "side looking" functions that are extremely useful for bank fishing or looking for bait fish in open water.

QuadraBeam PLUS™ transducer: purchase and connect the QuadraBeam PLUS™ transducer to your 700 Series™ Fishing System to access specialized QuadraBeam PLUS™ functions such as two 45° fan-shaped 35° 455 kHz Side Structure locating sonar beams to spot fish, bait and structure to the left and right of the boat over an area of the bottom that's always equal to twice your depth, for a continuous 90° of uninterrupted side to side coverage to 160 feet.

WeatherSense® Fishing Condition Monitor: purchase and plug in the WeatherSense® accessory to your 700 Series™ Fishing System to obtain barometric pressure readouts and trend data in real time.

GPS Connection Cable: purchase the GPS Connection Cable in order to connect a handheld or other NMEA* GPS-compatible device that you may already own to your 700 Series™ Fishing System.

**NMEA 0183 is a National Marine Electronics Association standard for data communication.*

Wireless Sonar Link (WSL) purchase the Wireless Sonar Link (WSL) accessory to receive remote sonar signals from a SmartCast® Remote Sonar Sensor (RSS). Radio signals from the RSS are received by the WSL and transmitted over the Accessory Bus to the 700 Series™ Fishing System.

PC Connect Cable: Purchase the PC Connect Cable to connect the 700 Series™ Fishing System to a PC in order to upload product software updates and new features obtained from **www.humminbird.com.** This accessory requires the MSWindows-compatible HumminbirdPC™ software downloaded from our website to your PC in order to communicate with the 700 Series™ Fishing System.

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Universal Sonar 2: Your 700 Series™ Fishing System supports Universal Sonar 2, a state-of-the-art, integrated and protected transducer that is built into the lower unit of Minnkota trolling motors. With Universal Sonar 2, all wiring is concealed inside the indestructible composite shaft—out of sight and out of harm's way, with no clamps, ties, or exposed wires. Universal Sonar 2 features new temperature sensing and the performance of DualBeam PLUS™ technology (available with all Humminbird® DualBeam PLUS™ models). An expanded view and greater bottom detail gives you a totally new perspective of the water below, along with optimal sonar performance to help you find fish.

Downriggers are the key to catching fish you otherwise couldn't even touch. And now Humminbird's **CannonLink™** Downrigger Controller makes operation of up to six Cannon™ Mag 20 DT or Mag 20 DT/HS downriggers incredibly easy. Using the controls on your Fishing System, deploy or retrieve downriggers, hold a specific distance off the bottom, cycle downriggers between two depths, and adjust the Positive Ion Control. Even see temperature and water clarity at depth and speed at the ball right on-screen when using the Cannon™ Speed-n-Temp. You'll never be shorthanded again, just make adjustments from the helm, while your mate rigs the lines and brings in the fish!

With the new **InterLink™** Network Connection, you can now share GPS position, waypoints, routes and your current track between two Humminbird Fishing Systems in real time. Mark a waypoint at the console, and it's instantly available on the second unit. No matter where you're at on the boat, you'll have access to your critical fishing and navigation information. Plus, daisy chain **InterLink** with other System Modules and you'll have a network that lets you share digital data around the boat. It's a simply, clearly, better networking solution!

Be sure to check out our website **www.humminbird.com** for additional new and exciting accessories to grow your 700 Series™ Fishing System!

NOTE: *Each accessory requires a separate purchase. You can visit our website at* ***www.humminbird.com*** *or contact our Customer Resource Center at* ***1-800-633-1468*** *for additional details.*

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Specifications

Depth Capability 1500 ft (500 m)

Power Output 500 Watts (RMS), 4000 Watts (Peak to Peak)

Operating Frequency 200 kHz and 83 kHz DualBeam PLUS™

Area of Coverage 60° @ -10 dB in 83 kHz
20° @ -10 dB in 200 kHz

Target Separation 2 1/2 Inches (63.5 mm)

Power Requirement 10-20 VDC

LCD Matrix 320 V x 240 H (757c)
640 V x 480 H (787c^2 and 787c^2i)

Transducer XHS-9-20-T

Transducer Cable Length 20 ft (6 m)

Current Draw 700 mA (757c)
700 mA (787c^2)
750 mA (787c^2i)

NOTE: *Humminbird® verifies maximum stated depth in saltwater conditions, but actual depth performance may vary due to transducer installation, water type, thermal layers, bottom composition and slope.*

NOTE: *Product specifications and features are subject to change without notice.*

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POLICY ON ENVIRONMENTAL COMPLIANCE: *It is the intention of Humminbird® to be a good corporate citizen and comply and meet all known and applicable environmental regulations in the areas and countries where our products are sold. We will promote and implement environmentally sound processes in support of national and international regulations.*

ROHS STATEMENT: *Product designed and intended as a fixed installation or part of a system in a vessel may be considered beyond the scope of Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.*

WEEE STATEMENT: *Product designed and intended as a fixed installation or part of a system in a vessel may be considered beyond the scope of Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003 on waste electrical and electronic equipment (WEEE).*

CALIFORNIA PROPOSITION 65 STATEMENT: *Lead in cable jackets and boots is restricted to 300 parts per million or less as determined by ICP-AES test methods.*

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Glossary

Sonar Terms:

Alarm, Depth: Depth Alarm is a user-controllable, audible alert that sounds when depth is less than or equal to the setting.

Alarm, Temperature: Temperature Alarm is a user-controllable, audible alert that sounds when the water surface temperature equals the setting.

Backlight: Backlight is a user-controllable illumination for the LCD for night and low light use.

Beam (Sonar Beam): A sonar beam is the wide, cone-shaped projection of sound waves formed as sound travels underwater. See ***Cone Angle***.

Big Digits View: Big Digits View is a Humminbird® feature that displays the sonar graph and enlarged digital readouts for easy reading from a distance. This is a great tool when monitoring the digital depth is important - such as with higher boat speeds, or when viewing the unit from a distance. When speed input is available, the Big Digits View also shows the TripLog. See ***TripLog***.

Bottom Black: Bottom Black is a Humminbird® feature that "fills in" the area of the display below the bottom contour. Bottom Black is preferred by some anglers because of its high contrast and easy readability, even though it can obscure bottom hardness information.

Bottom Contour: Bottom Contour is the profile of the bottom graphed to the display as the depth changes.

Bottom Hardness: Bottom Hardness is the density (or composition) of the bottom, which can often be determined by interpreting the main sonar return. Varying levels of hardness can be determined by interpreting the "thickness" of the sonar return. Hard returns appear thin and black, softer returns appear thicker and less black. It is important to note that a sonar return from a sloping bottom can have the appearance of a softer bottom.

Cavitation: Cavitation is the effect of air bubbles created as the propeller rotates and the boat moves through the water.

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Chart Speed: Chart Speed is a user-controllable feature that sets the speed at which sonar information moves across the display. A faster setting displays sonar information from more pings and shows more detail, but the information moves quickly across the display: a slower setting permits viewing of more sonar history, but does not display as much detail. The best setting is often the user's personal choice.

Cone Angle: The cone angle is the angular measurement of the sonar beam at a specific dB down point (i.e. -10 dB). See ***dB Down Point***.

Customizable Digital Readouts: Customizable Digital Readouts is a Humminbird® feature that permits the user to select the specific digital information that appears in the main Sonar view (i.e. Speed, Temperature, Barometric Pressure, TripLog, etc.)

Dead Zone: The dead zone is the area of the sonar beam that receives the sonar signal after the main bottom return. Fish and other objects close to the bottom that fall within the dead zone will probably not be visible in the sonar beam. Precision sonar beams, such as the Humminbird® 20° beam, have a smaller dead zone than wider sonar beams.

Decibel: A Decibel is the measurement for sound pressure level, or "intensity" of the sonar return. See ***dB Down Point***.

dB Down Point: The dB Down Point is the standard decibel level at which the sonar cone angle is measured, and is written as "@ -10 dB" or "@ -3 dB". Measurements at smaller down points (bigger negative numbers) indicate that the less intensive sonar signals are being used for the measurement.

Display, FSTN: FSTN is an acronym for Film Super-Twist Nematic. FSTN is a monochrome display technology characterized by black, high-contrast pixels. All monochrome fixed mount Humminbird® products use FSTN technology.

DualBeam PLUS™: DualBeam PLUS™ is a Humminbird® sonar configuration that uses two sonar beams simultaneously, and combines the information from both beams into one view by overlapping the data on-screen, or shows each beam individually side by side, or permits each beam to be viewed individually full screen.

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Feature Memory: Feature Memory is a Humminbird® feature that retains the user's menu settings in permanent memory. Settings are retained even when the unit is powered off indefinitely.

Fish Arch: A Fish Arch is the apparent "arch" that appears on the display when any object moves through the sonar cone. The arch results from a gradual decrease in distance to an object as it moves into the sonar cone. The distance to an object changes due to the conical shape of the sonar beam, which causes the distance to be greater at the edges of the beam than at the center of the beam. When this distance change is graphed on the display, an arch appears.

Fish ID+™: Fish ID+™ is a Humminbird® feature that uses advanced sonar processing algorithms to determine if a detected object is likely to be a fish. When the sonar signal from an object meets strict parameters, the unit draws a Fish Symbol (or icon) and the digital depth of the target. On DualBeam and DualBeam PLUS™ units, fish detected in the narrow center beam are shown as shaded symbols, and fish detected in the wider beam are shown as hollow symbols.

Fish Symbol: A Fish Symbol is the graphic that is displayed on the screen when Fish ID+ determines that a sonar return is likely to be a fish. See ***Fish ID+***.

Freeze Frame: Freeze Frame is a Humminbird® feature that pauses the sonar scrolling so that the image on screen can be studied with greater detail. See *Instant Image Update*.

Frequency: Frequency is a measure of the number of sound wave cycles per second of a sound impulse transmitted underwater. A typical frequency for fishfinders is 200 kHz, which offers a good balance of performance under many conditions. Lower frequencies, such as 50 kHz, are capable of penetrating to greater depths, but with less resolution. Higher frequencies, such as 455 kHz, offer greater resolution, but are limited in depth performance. Humminbird® uses a variety of frequencies that are optimized for specific applications.

Grayscale: Grayscale is the use of varying shades of gray to represent the strength of the sonar signal on the display , and is a very intuitive method of presenting information. Traditionally, the strongest sonar signals are represented in black, and progressively weaker signals are represented in progressively lighter shades of gray.

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Grayscale, Inverse: Inverse Grayscale is a Humminbird® feature that reverses the correlation of sonar signal strength and the shade of gray typically used to represent it. The strongest sonar signals are represented by "white", and progressively weaker signals are represented in progressively darker shades of gray. While somewhat counter-intuitive, this method makes the sonar images crisper, and has the benefit of enhancing the apparent sensitivity because the weaker signals appear bolder. Inverse grayscale works well in very clear water. Debris-laden water often appears as a lot of clutter on the screen.

Instant Image Update: Instant Image Update is a Humminbird® feature that updates all the sonar information on the display when Sensitivity and a variety of sonar settings (Bottom View, Range, etc.) are modified. This differs from the traditional functionality that only updates the new sonar information collected after the setting change. Instant Image Update permits more accurate fine-tuning of the display because the user can see the results on the complete sonar graph. When combined with the Freeze Frame feature, the user can adjust and understand the effects of many different sonar settings quickly and easily.

Maximum Depth Menu: The Maximum Depth Menu is a Humminbird® feature that optimizes performance based on the maximum operational depth set by the user. Many Humminbird® units can operate across a very broad depth range (up to 2500 feet) which causes the unit to "look" up to that full depth under some circumstances. Due to the speed of sound in water, this can result in less responsiveness because the unit has to wait for a longer period of time to receive the sonar signal. When the Maximum Depth menu is set to a lower value, the unit only looks up to the setting, which increases the responsiveness of the unit. This is an important feature for anyone operating in shallower depths!

Noise: Noise is unintentional, external sound waves that interfere with the optimal operation of sonar. Noise appears as random "dots" on the display, and is caused by a variety of sources. Electrical noise (from trolling motors, bilge pumps, VHF radios) typically manifests as a consistent dot pattern. Electrical noise can be isolated by selectively turning on and off other electrical devices to determine the source. Often re-routing the power cable, or connecting to an alternative power supply (second battery) can help overcome electrical noise. Hydrodynamic noise (from propeller and/or hull cavitation) has a more random appearance and is generally related to boat speed, so that faster operation results in more noise.

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Hydrodynamic noise can be overcome by proper transducer installation. Many Humminbird® products have a Noise Filter menu setting that allows the user to clear the screen of noise that is difficult to eliminate.

Pixels: Pixels are the "picture elements", or small square blocks, that make up the image on the LCD. Measured as a vertical by horizontal number (i.e. 640V x 320H), this key specification typically indicates the quality of resolution. In fishfinders, the total resolution (vertical multiplied by horizontal) is often less important than the "Vertical Pixel" resolution. See ***Pixels, Vertical***.

Pixels, Vertical: Vertical Pixels are a number of vertical picture elements in a single column on an LCD display. A greater number of vertical pixels provide finer resolution of targets detected by sonar. Essentially, a vertical distance (the depth), when divided by a larger number, breaks that distance into smaller samples, each representing a smaller area and thus providing more detail. In fishfinders, vertical pixels are more critical than horizontal pixels because the horizontal axis of the display represents time, or history. Sonar information on the horizontal axis can vary greatly, depending on boat speed and the Chart Speed setting. A greater number of horizontal pixels show more sonar history that the boat has passed through. On many models, Humminbird® provides the most vertical pixels to provide a better display resolution. See ***Chart Speed*** and ***Pixels***.

Power Output: Power output is the amount of sound energy emitted into the water by the sonar transmitter. Power output is measured using either RMS (Root Mean Square) or P-T-P (Peak-to-Peak) measurement systems. Either method is acceptable, but it is important, when comparing power outputs, to make sure that the same measurement system is being used for both outputs, because P-T-P numbers are 8 times higher than RMS numbers. Greater power output allows the sonar signal to penetrate through weeds and thermoclines, reach deeper depths and operate more effectively in noisy environments, such as when the boat is running at high speed.

Pulse Width (Pulse Length): Pulse Width is the length of time that a sonar sound burst is transmitted into the water. Shorter pulse widths provide better target separation, but cannot travel to great depths. Longer pulse widths provide better depth penetration, but result in poorer target separation. Humminbird® varies pulse width based on depth to optimize both target separation and depth performance. See ***Target Separation***.

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QuadraBeam PLUS™: QuadraBeam PLUS™ is a Humminbird® sonar configuration that uses four sonar beams for a more detailed bottom image. QuadraBeam PLUS™ uses the DualBeam PLUS™ configuration for downlooking, and also adds two additional beams to look to the left and right. The sonar beams pointing to the left and right provide the ability to spot fish and structure over a wide 90° area, and to identify on which side of the boat they are located. See *DualBeam PLUS™*.

Quick Disconnect Mount: The Quick Disconnect Mounting system is an exclusive Humminbird® feature that permits the unit to be easily removed from the mounting base by pressing a release button, and re-installed by simply snapping it back into place. All cable connections are made when installing, so that no separate wiring connections are required. Additionally, the mount offers 90° tilt and 360° swivel capability to adjust the viewing angle of the unit as you move about the boat.

Real Time Sonar: Real Time Sonar is a Humminbird® technology that delivers ultra-fast sonar transmitter/receiver operation and results in a more detailed instantaneous view of what is under the boat. The Real Time Sonar window is a vertical band at the right side of the display that shows the instantaneous sonar return from the transducer at a particular instant. The RTS® Window menu option permits the user to adjust the window to show the full sonar signal return, or just a narrower band that indicates intensity using grayscale. Real Time Sonar relies on very fast Sonar Update Rate (Ping Speed). See *Sonar Update Rate*.

Receiver: See *Transmitter*.

Second Return: The Second Return is a term that describes the appearance of a second sonar return below the primary sonar return (bottom contour) at exactly twice the true depth. The second return is caused by the same sonar energy bouncing off the bottom once, rebounding to the water surface and then traveling back down to the bottom to be reflected again. Second returns are more common in shallow water and over hard bottoms; it is actually possible to see a third sonar return under some circumstances. The second return provides useful information to help determine bottom hardness, as areas with harder bottoms will generally create a second return. The second return can be used as a guide to set Sensitivity when in shallower water.

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Sensitivity: Sensitivity is a user feature that adjusts the sensitivity of the sonar system to show more or less detail in the water. Higher sensitivities are often preferred, however, when the water contains debris (silt, storm debris, etc.) and it can be difficult to pick out targets. Conversely, if sensitivity is set too low, relevant targets may be missed.

SONAR: SONAR is the acronym for SOund and NAvigation Ranging. Sonar technology uses precision sound bursts transmitted underwater to determine the distance and other attributes of objects in the water. Distance can be determined because the speed of sound in water is constant, and the time for the signal to return is measured. Sound also travels very quickly underwater, making sonar a responsive, cost-effective tool. Sonar is the basic technology behind all recreational and commercial fishfinding and depthfinding devices.

Sonar Echo Enhancement: Sonar Echo Enhancement is a Humminbird® feature that describes the high degree of sonar sensitivity achieved through a combination of transmitter/receiver and software algorithms. The result of Sonar Echo Enhancement is to display virtually everything in the water that is of interest to the angler, including bait fish, game fish, thermoclines, weed beds, subtle structure, and more.

Sonar Update Rate: Sonar Update Rate is the number of times per second that the transmitter/receiver sends and receives sonar signals. A very fast sonar update rate collects more information and provides a more detailed image of the bottom, fish and structure. Many Humminbird® units operate at up to 40 times per second when in single frequency operation. Due to the limitation of the speed of sound in water, the update rate begins to slow as depth increases to deeper than 50 feet. In very shallow water (less than 10 feet), however, update rates as much as 60 times per second can be achieved.

Speed: Speed is the rate at which the boat moves through the water. Boat speed can be measured as Speed Over Ground or Speed Through Water. Speed Over Ground is provided by GPS, and is the measurement of the boats progress across a given distance. Speed Through Water is provided by a speed paddlewheel, and is the measurement of the flow past the boat, which may vary depending on current speed and direction. Speed Through Water is most critical for anglers using downriggers, as it impacts the running depth of the down riggers. Speed Over Ground is optimal for navigation, as accurate destination times can be derived from this measurement. Humminbird® products allow for input and display of both sources.

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Structure: Structure is a general term for objects on the bottom that present a discontinuity and are a likely attractor for fish. This includes bottom contour features (drop-offs, humps, and holes), standing structure (stumps, timbers, brush piles) and a wide range of other potential objects (sunken boats, reefs). Humminbird® units excel at showing structure with great detail over a wider area due to unique sonar configurations developed for the angler.

Structure ID®: Structure ID® is a Humminbird® feature that describes the traditional grayscale method of presenting sonar information. See ***Grayscale***.

Surface Clutter: Surface Clutter is a phenomenon where sonar returns are reflected off of tiny objects near the surface of the water, including algae and even air bubbles. Typically, saltwater environments have significantly greater surface clutter than freshwater due to continuous wind and wave action that causes aeration at the surface. The Surface Clutter menu provides manual control to bias the default settings under extreme conditions.

Target Separation: Target Separation is the measurement of minimum distance that a fishfinder needs to be able to recognize two very close objects as two distinct targets (i.e. two fish hanging very close, or a fish hanging very close to structure). Humminbird® fishfinders provide a very good 2 1/2 inches of target separation in shallower than 100 feet of depth. Target separation decreases as depth increases due to the need for longer Pulse Width to achieve greater depth. See ***Pulse Width***.

Thermoclines: Thermoclines are water layer(s) of distinctly different temperatures that create a sonar reflection due to the density of the differing water temperatures. Typically a thermocline will appear as a continuous band across the display at some distance above the bottom contour. Thermoclines are of interest to anglers because fish will suspend above or below the thermocline as they seek the optimum temperature and oxygen levels.

Time Variable Gain: Time Variable Gain is a processing step applied to the sonar return to "normalize" the data so that objects of equal size (i.e. fish) appear to be the same size, even if they are separated by a good distance. Time Variable Gain is a fundamental attribute of good sonar, but is often promoted as a feature.

Total Screen Update®: A Humminbird® feature that refreshes and updates all the sonar information on the display when a range change occurs. Without Total Screen Update®, only the most recent sonar information would be drawn to the

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new range, and the old sonar information would continue to scroll off the screen at the old range.

Transducer: The transducer is part of the sonar system, which mounts on the boat and is in contact with the water, that converts the electrical energy from the transmitter into sound energy, and that forms the sonar beam in turn. Internally, the transducer consists of one or more piezo electric disks that expand by very minute amounts to create the sound wave. This element also works in reverse, converting the returned sound energy back into an electrical signal that the receiver interprets. Transducers are available for many specific mounting applications for the boat, such as a transom mount, trolling motor mount, etc. Humminbird® offers many sophisticated transducers, often with multiple piezo electric elements designed to form specifically-shaped sonar beams, providing the angler with superior tools for finding and catching fish. See ***Transmitter*** and ***SONAR***.

Transmitter: The transmitter and receiver are matched parts of the sonar system that send (transmit) and listen to (receive) the sonar signals, and work in conjunction with the transducer. Humminbird® transmitters have an extremely fast cycling design that can send signals up to 60 times per second, as well as produce the varying levels of power output needed for different depths and conditions. Additionally, the transmitter has the capability to create very precise sonar pulses needed for a high degree of target separation. Humminbird® receivers are extremely sensitive, but within a narrow "bandwidth" to discriminate against noise from external sources. Additionally, the receiver offers a wide "dynamic range" which provides the ability to receive very strong signals alternating with very weak signals, without the strong signal overwhelming the weak signal. See ***Transducer*** and ***Noise***.

TripLog: TripLog is a Humminbird® feature that provides an on-screen counter for Elapsed Time, Average Speed and Total Distance traveled, and requires a speed input to activate the feature. TripLog appears on the Big Digits View, and can be reset to zero through the TripLog menu.

TrueArch®: TrueArch® is a Humminbird® feature that provides true fish arches, not artificial arches or symbols. Humminbird® units are capable of producing fish arches due to the wide 60° sonar beam of DualBeam PLUS™, an extremely sensitive sonar receiver. See ***Fish Arch***.

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Viewing Angle: Viewing Angle is an attribute of an LCD that characterizes visibility of the display when viewing from off the central access, such as when standing to the side of the fishfinder. Wider viewing angles are better because the information remains visible even when viewing from the side.

WhiteLine®: WhiteLine® is a Humminbird® feature that highlights the strongest sonar return on the display using a very light gray band. This is preferred by some anglers who have grown accustomed to the feature on paper graph chart recorders.

WideSide®: WideSide® is a Humminbird® sonar configuration used in an optional transducer. WideSide® uses three sonar beams pointing to the left, right and down. Beams pointing to the left and right are effective for spotting fish and structure near the surface or on the bank. The downlooking beam provides depth information directly below the boat.

X-Press™ Menu: X-Press™ Menus are a Humminbird® feature that make the most commonly-used menu selections available with one press of the MENU key. Items that appear on the X-Press™ Menu are related to the current view, and present the most logical choices for that view. Sonar View X-Press™ menus will differ from Chart View X-Press™ menus, etc. X-Press™ menus are one of the principal reasons that Humminbird® products are easier to use.

Zoom: Zoom is a feature that focuses in on a smaller area of the bottom to provide enhanced resolution. With enhanced resolution, the angler can more easily see fish hanging in structure or multiple fish hanging close together. Split screen zoom divides the display into the full range view on the right, and the zoomed view on the left. Humminbird® offers One-Touch® Zoom which allows the zoom feature to be easily accessed from the regular sonar view with just one key press, eliminating the need to use menus to access the feature.

Zoom, Bottom Lock: Bottom Lock Zoom is a feature that focuses on a smaller area just above the bottom to provide enhanced resolution. Unlike regular zoom, it continuously graphs the bottom at a constant point on the display regardless of changes in depth. This "flattens" out the bottom contour, but is effective at showing fish on or near the bottom, and is preferred by many saltwater anglers.

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GPS & Navigation Terms:

Acquisition Time: The length of time that a GPS receiver typically takes to determine a position from at least three satellites. Humminbird® GPS receivers provide very fast acquisition times (under one minute), permitting users to get out on the water faster.

Alarm, Arrival: The audible alert that sounds when the boat is equal to or less than the alarm setting (25 feet – 3000 feet) from the location of the destination waypoint.

Alarm, Drift: Drift Alarm is an audible alert that sounds when the boat is equal to or over the alarm setting (25 feet – 3000 feet) from the location where the alarm was turned on.

Alarm, Off-Course: Off-Course Alarm is an audible alert that sounds when the boat's distance from the intended Track, (Cross Track Error), is equal to or over the alarm setting (25 feet – 3000 feet). See ***Track*** and ***Cross Track Error***.

Altitude: Altitude measures height above sea level. Altitude is a measurement that can be provided by GPS.

Bearing (BRG): Bearing is the direction to a destination waypoint measured in degrees from North (i.e. 321°, where 000° is North, 090° East, 180° is South, 270° is West).

Chartplotter: Chartplotter describes a navigation device that shows Present Position on a Map, along with Tracks, Waypoints, and Routes. All Chartplotters are also considered Trackplotters. All Humminbird® GPS Combo units are Chartplotters. See ***Trackplotter***.

Cold Start: Cold Start refers to the procedure that a GPS receiver must perform when it does not have historical information regarding its current location. This procedure typically lasts for several minutes, and may be experienced upon first power up of the receiver, or if the receiver has been moved a great distance.

Course Over Ground (COG): Course Over Ground is the current direction the boat is traveling measured in degrees from North (i.e. 321°, where 000° is North, 090° East, 180° is South, 270° is West). When the Course Over Ground is equal to Bearing, the boat is said to be "On Course" and will arrive at the destination in the most efficient manner. COG is often confused with Heading. See ***Heading***.

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Cross Track Error (XTE): Cross Track Error is the straight-line distance of the boat from the intended Track. XTE measures how far the boat is off course, and also triggers the Off Course Alarm. See ***Track***.

Differential GPS (DGPS): Differential GPS is a system to improve the position accuracy of the Department of Defense GPS through the use of secondary "correction signals" broadcast from ground stations around the coastal United States and on some inland waterways. These correction signals are provided by the USCG and received by an auxiliary Differential Beacon Receiver (DBR) that connects to the GPS receiver. The advent of WAAS has largely negated the need for the added expense of a DBR in the United States.

Distance To Go: Distance To Go is the straight-line distance between Present Position and the Destination Waypoint. DTG and SOG (Speed Over Ground) are used to calculate Time To Go. See ***Time to Go*** and ***Speed Over Ground.***

Estimated Position Error (EPE): Estimated Position Error is a calculation that indicates the potential position inaccuracy the user may experience due to a variety of GPS factors which include satellite position in the sky, signal strength and others factors.

Fix Type: Fix Type indicates whether the GPS receiver is providing 2D fix or 3D fix. A 2D fix requires only three satellites and provides only latitude and longitude. A 3D fix requires four or more satellites, and provides latitude, longitude and altitude.

GPS: GPS is an acronym for Global Positioning System. GPS provides accurate position (latitude, longitude, altitude) information virtually anywhere on the earth through satellite technology and personal receivers on the ground. A series of geosynchronous satellites broadcast a unique signal toward the earth once per second. A GPS receiver, such as that included with many Humminbird® products, receives the signals from these satellites and is able to determine position based on very slight differences in the time each signal is received and the receiver's knowledge of the location of each of the satellites.

Heading: Heading describes the direction the boat is pointing and is measured in degrees (i.e. 321°, where 000° is North, 090° East, 180° is South, 270° is West). Due to wind and waves, the boat is often traveling in a slightly different direction than it is heading, and therefore Heading is often confused with Course Over Ground. See ***Course Over Ground***.

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Map Datum: A Map Datum refers to a particular survey of the earth's surface that was referenced when creating a chart (i.e. WGS84). Since the earth is not flat, and not even consistently round, a mathematical model must be used to translate coordinates from the sphere of the earth to the flat surface of a chart. This mathematical model is the Map Datum. Historically, many different Map Datums have been used around the world to create maps; often a reference to the Map Datum can be found in the legend of a paper map. It is important to select the correct Map Datum setting in your fishfinder when comparing GPS position to a paper chart to avoid slight position inaccuracies. Almost all electronic charts use the WGS84 Map Datum and therefore, they do not require setting changes.

MMC: MMC is an acronym for Multi Media Card. An MMC is a postage stamp-sized memory device used to store electronic data such a maps, waypoints, routes and other information. MMC is a very rugged format suitable for the marine environment, but it is not waterproof. The MMC is removable from Humminbird® products, and can be used in a PC that is equipped with an appropriate card reader. MMC is the same format that many digital cameras use. See ***SD***.

North, Magnetic: North is the principle reference point of the compass (i.e. North is 000°). Magnetic North relies on the earth's magnetic field to align a metal pointer generally towards True North. However, due to local variations in the earth's magnetic field around the globe, the difference between True North and Magnetic North can be greater than 10°. See ***True North***.

North, True: North is the principle reference point of the compass (i.e. North is 000°). True North uses the axis of the rotation of the earth as the reference for North and is constant for all points on the earth. Most GPS units default to True North as the setting. The GPS heading may vary from the boat compass heading because the compass uses Magnetic North. Humminbird® GPS units provide the option of selecting True or Magnetic readouts by using the North Reference menu. See ***Magnetic North***.

Present Position: Present Position is the current location (latitude, longitude) determined by GPS. The Present Position is indicated on-screen by a directional boat icon if the boat is moving, or a round symbol if the boat is stationary.

Route: A Route is series of waypoints linked together in a specific sequence to define a navigation path between two points, and saved in the fishfinder's

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memory. Routes are often used when frequently traveling between two or more locations because it is a faster and more accurate method than repeatedly selecting individual waypoints each time one travels through the same area. Routes consist of a Start Waypoint, an End Waypoint, and a series of waypoints in between. Users can begin navigation at the beginning, the end (to run the route in reverse) or at any waypoint in between. See ***Waypoint***.

SD: SD is an acronym for Secure Digital. An SD card is virtually identical in function to an MMC; however, the speed at which information can be accessed is generally faster, the storage capacity is generally larger, and the card has security features which can be used to prevent extracting the data from the card. SD is the same format that many digital cameras use. See ***MMC***.

Selective Availability: Selective Availability (SA) is a GPS system "feature" that can be implemented by the U.S. Department of Defense (DoD) to degrade the accuracy of GPS positioning information. With SA active, the GPS is accurate to within 100 meters 95% of the time. With SA inactive, the GPS is accurate to within 45 meters 95% of the time. Currently, SA is inactive and the consumer can enjoy the greater precision GPS provides; however, the DoD reserves the right to activate SA at any time.

Speed Over Ground (SOG): Speed Over Ground is the measurement of the boat's progress across a given distance, and is the speed measurement provided by GPS. An alternate, Speed Through Water, is provided by a speed paddlewheel, and is the measurement of the flow past the boat, which may vary depending on current speed and direction. Speed Over Ground is optimal for navigation because accurate destination times can be derived from this measurement. Humminbird® products allow for input and display of both speed measurements.

Time To Go (TTG): Time To Go is the estimated time required to reach the destination waypoint. TTG is calculated using the SOG and DTG. See ***SOG*** and ***DTG.***

Track: A Track is a series of saved points that define the past path of the boat. These Track Points are saved at regular time intervals. Tracks are a useful and quick method to see where you've been, and an easy guide to follow to get you back to the starting point. Generally, all GPS units have a limited number of Track Points that can be saved before the unit runs out of memory and begins erasing the first track points saved. Because of this, the user can adjust the Track Point Interval

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menu to increase the amount of time between when points are saved, and thus extend the distance covered by a track. Tracks can also be permanently saved to memory, and re-displayed at the user's option.

Track Line (TRK): The Track Line is the desired line of travel between two waypoints, and represents the most efficient path between the two points because it is a straight line. The TRK is measured in degrees (i.e. 321°, where 000° is North, 090° East, 180° is South, 270° is West). See ***Cross Track Error*** and ***Course Over Ground***.

Trackplotter: Trackplotter describes a navigation device that shows Present Position, along with Track, Waypoint, and Routes, but NO MAP in the background. See ***Chartplotter***.

Trolling Grid: Trolling Grid is a Humminbird® feature that displays a precise reference grid around a waypoint. This grid is used as a guide pattern for trolling around a specific area to assure a more efficient and complete coverage of that area. Trolling Grid resolution be changed by zooming in or out on the chart. The Trolling Grid can also be rotated on the display to orient it for optimal boat course for wave and wind conditions.

UTC: UTC is an acronym for Universal Time Constant. UTC is the "standard time" used in navigation, and is the local time in Greenwich England. (UTC is equivalent to Greenwich Mean Time (GMT)). To display the correct Local Time in a Humminbird® GPS unit, the user must use the Local Time Zone menu and select the time zone (i.e. EST, CST).

WAAS: WAAS is an acronym for Wide Area Augmentation System. WAAS is complementary technology to GPS that provides enhanced accuracy through correction signals broadcast from Federal Aviation Administration WAAS satellites stationed over the USA. These secondary signals are automatically received by the standard Humminbird® GPS Receiver. With WAAS signal, GPS accuracy is improved to within 3 meters 95% of the time. Outside the United States, regional governmental coalitions have created similar systems such as EGNOS (Europe) and MSAS (Japan).

Waypoint: A Waypoint is the saved location (latitude, longitude) of a point of interest that is stored in a GPS receiver's memory. This can include a marker buoy,

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dock, fishing hole or anywhere else the user may want to return to. Humminbird® products offer the ability to name and assign a symbol to the saved location. Depth, Date and Time of Day when the waypoint was created is also saved.

Waypoint Target: Waypoint Target is a Humminbird® feature that displays a precise "bull's eye" around a selected waypoint. This bull's eye is used to easily monitor boat position relative to a waypoint, and is useful for fishing over submerged structure. With Waypoint Targets, a quick look at the screen lets you know how far off the waypoint the boat has drifted.

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